

Page 1

Changed chart(s) since Disc 23-2009

ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

| ACT | PROCEDURE IDENT | INDEX | REV DATE | EFF DATE |
|-----|-----------------|-------|----------|----------|
|-----|-----------------|-------|----------|----------|

No revision activity since Disc 23-2009

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport URRR

General Info

Rostov-Na-Donu, RUS
N 47° 15.5' E 39° 49.1' Mag Var: 6.2°E
Elevation: 280'

Public, IFR, Control Tower, Customs, Landing Fee
Fuel: Jet A-1
Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+3:00 uses DST

Runway Info

Runway 04-22 8205' x 148' concrete
Runway 09-27 4265' x 279' grass

Runway 04 (39.0°M) TDZE 249'
Lights: Edge, ALS, Centerline, TDZ
Runway 09 (90.0°M) TDZE 280'
Displaced Threshold Distance 1148'
Runway 22 (219.0°M) TDZE 280'
Lights: Edge, ALS, Centerline
Runway 27 (270.0°M) TDZE 280'
Displaced Threshold Distance 1148'

Communications Info

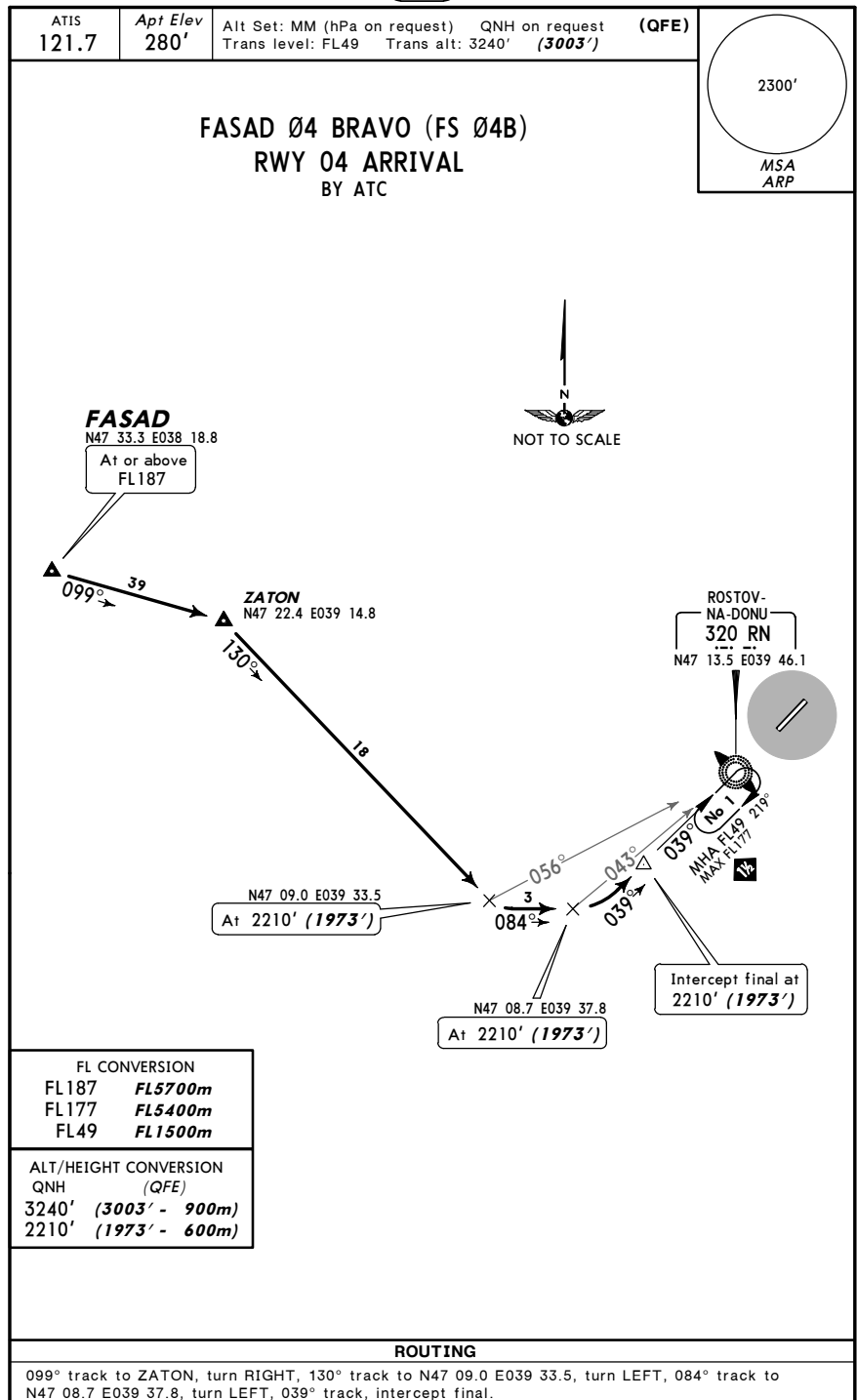
ATIS **121.7**
Rostov Start Tower **124.0** Secondary
Rostov Start Tower **119.7**
Rostov Taxiing Ground Control **124.0** Secondary
Rostov Taxiing Ground Control **119.0**
Rostov Approach Control **128.2**
Rostov Approach Control **127.1** Secondary
Rostov Approach Control **124.0** Secondary
Rostov Radar **124.0** Secondary
Rostov Radar **121.2**
Rostov Transit 2 Operations **131.875** Non-English
Rostov Transit Operations **118.0** Non-English

Notebook Info

URRR/ROV
ROSTOV-NA-DONU

6 NOV 09 10-2 Eff 19 Nov STAR

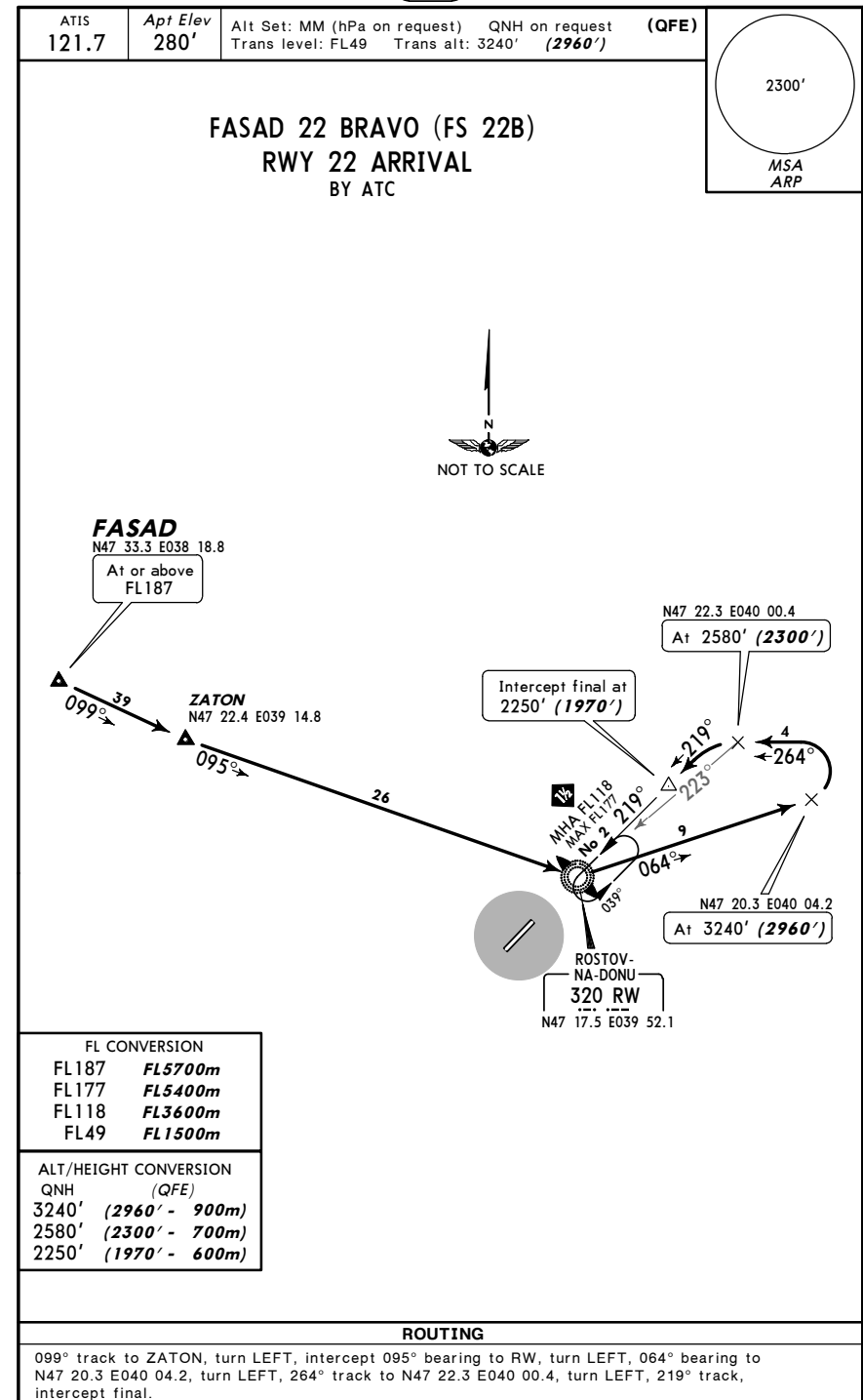
JEPPESEN ROSTOV-NA-DONU, RUSSIA



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6 NOV 09 10-2A Eff 19 Nov STAR

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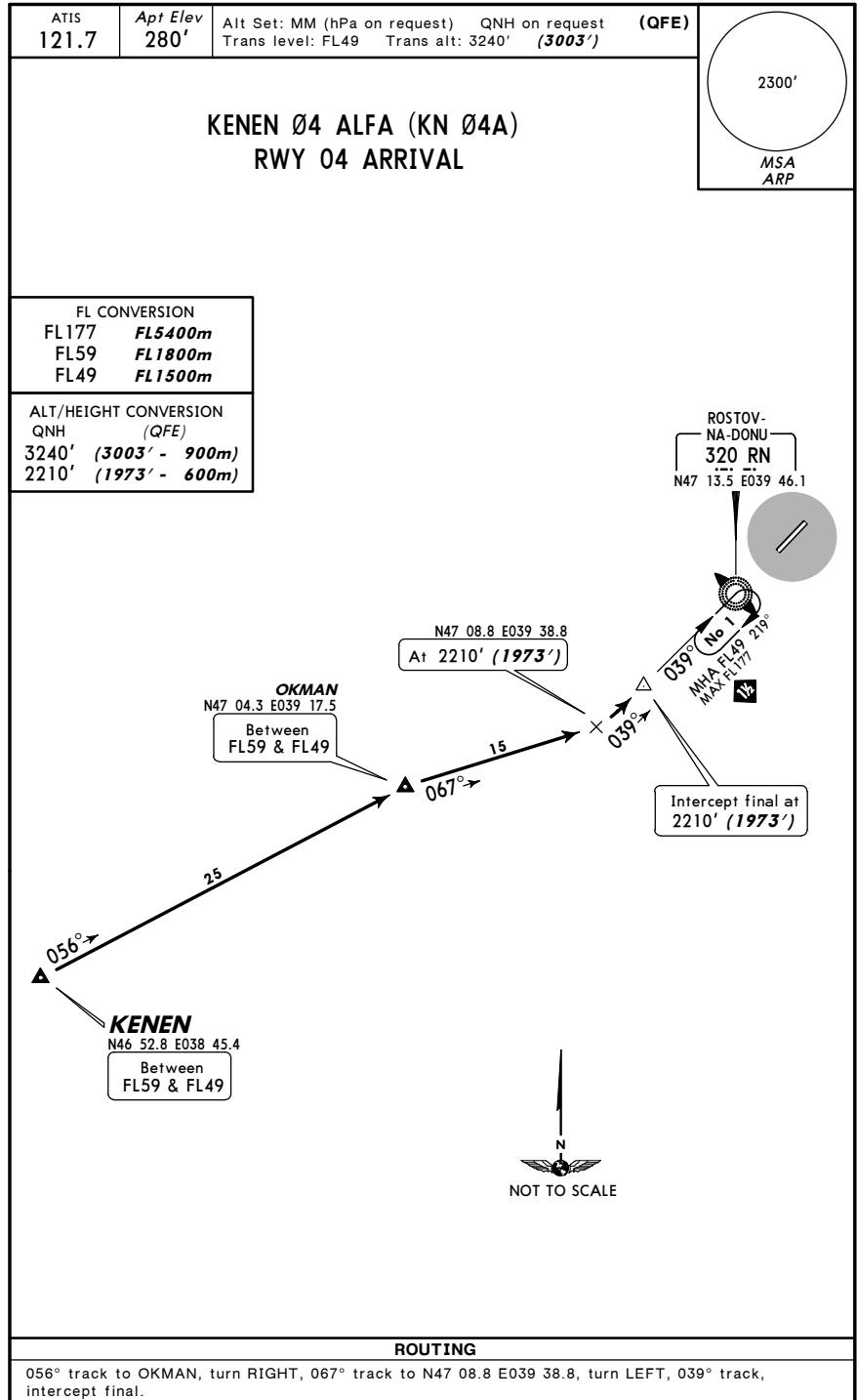


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JEPPESEN ROSTOV-NA-DONU, RUSSIA

8 DEC 06 (10-2B) Eff 21 Dec

STAR

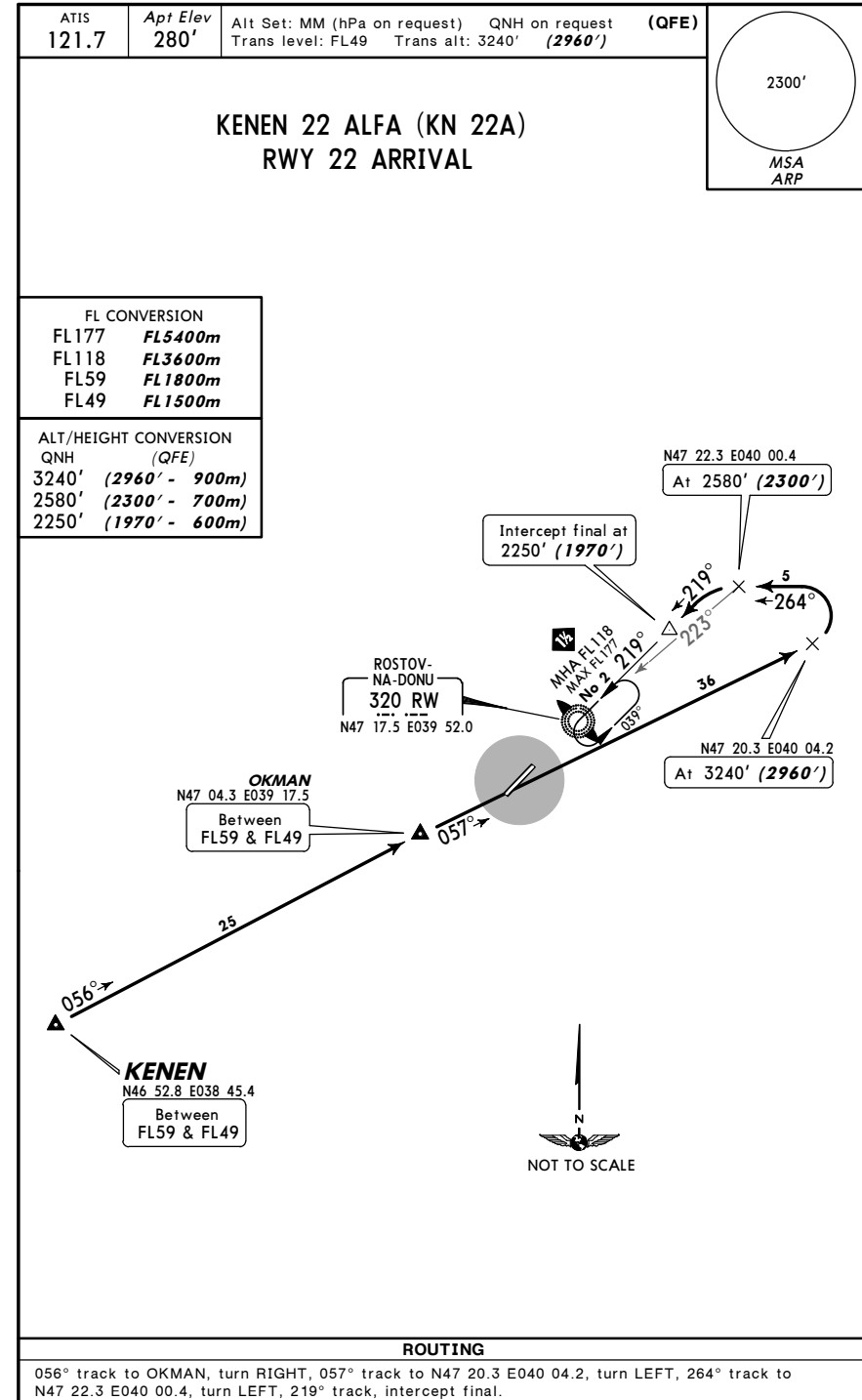


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8 DEC 06 (10-2C) Eff 21 Dec

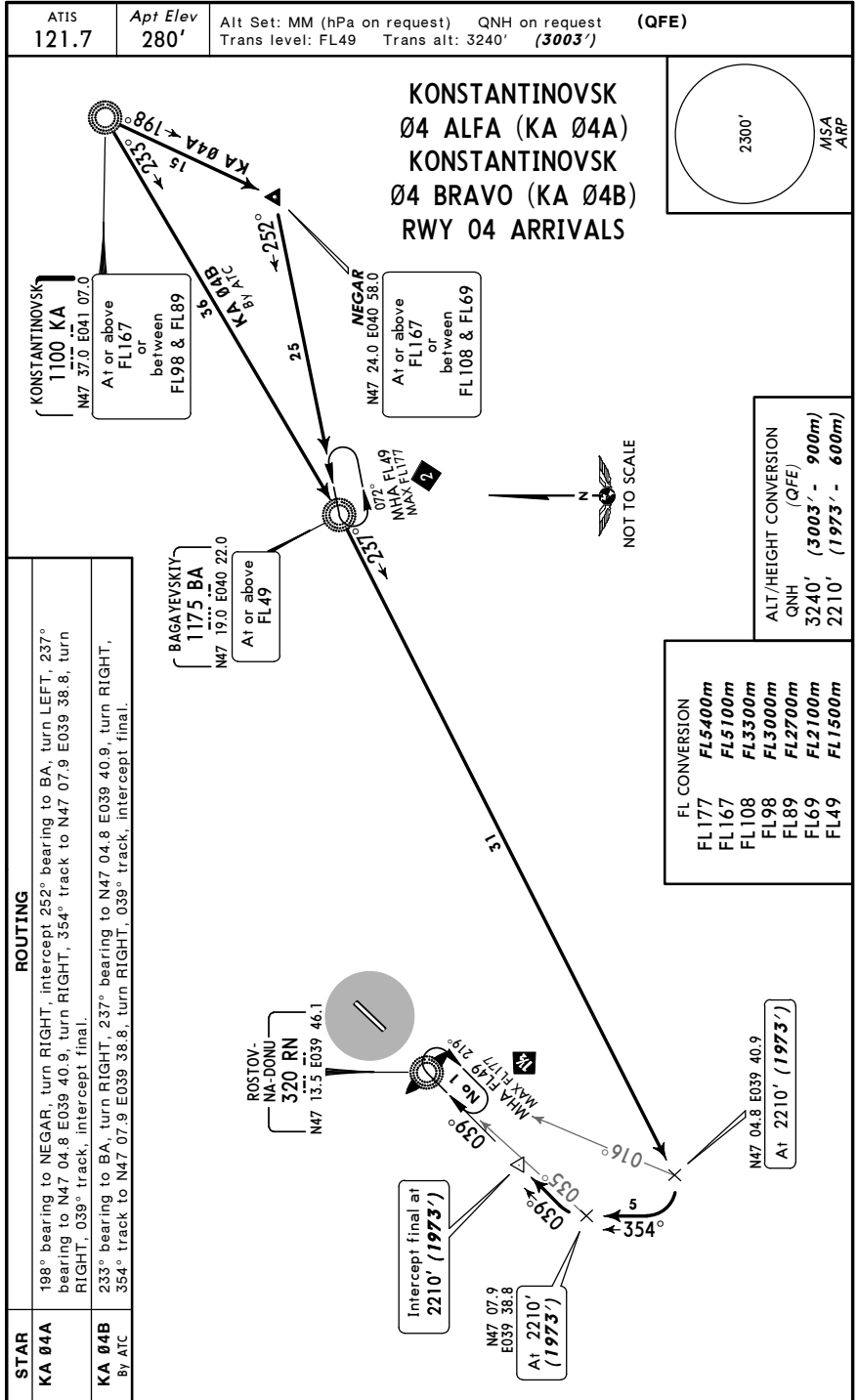
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URRR/ROV
ROSTOV-NA-DONU

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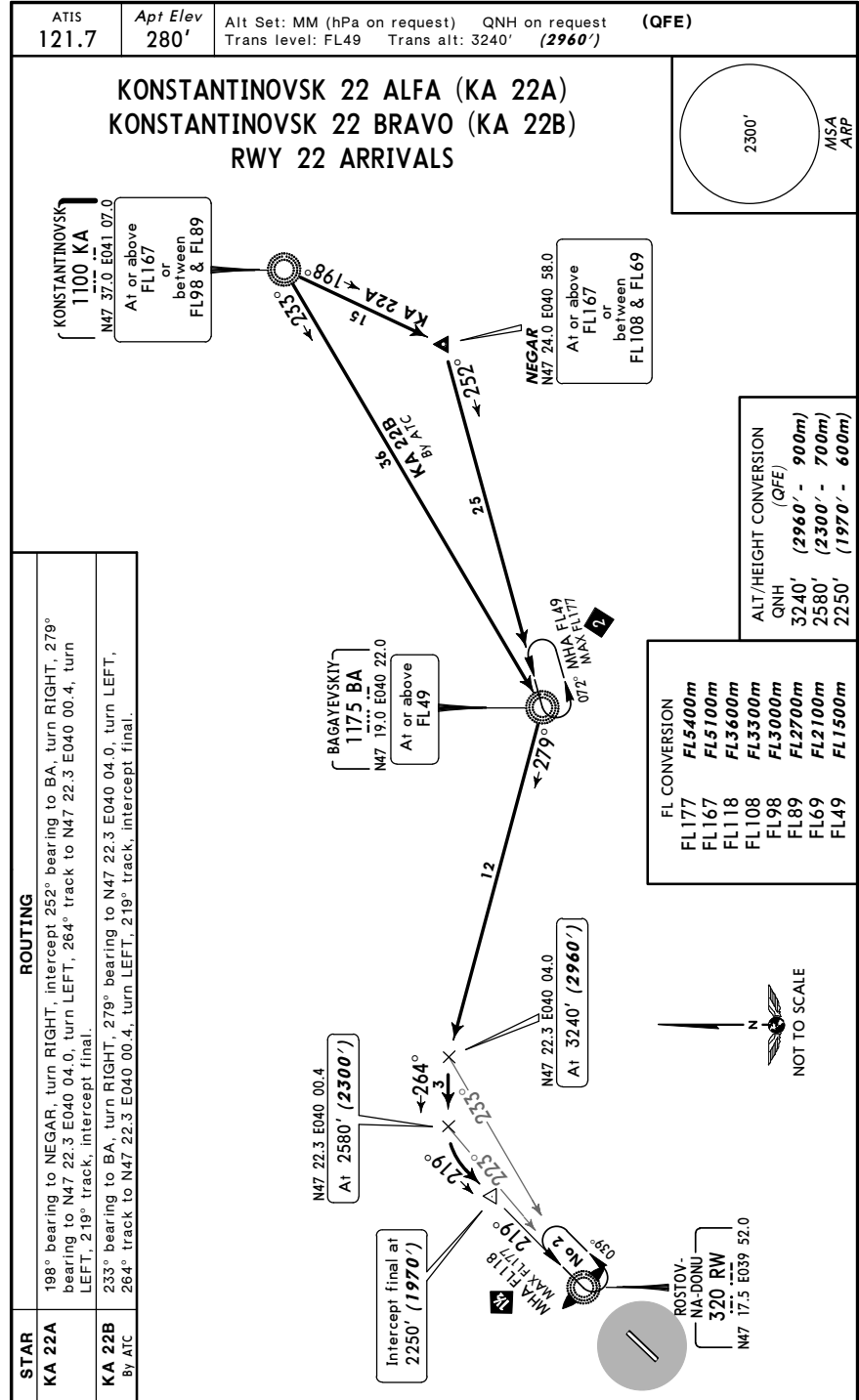
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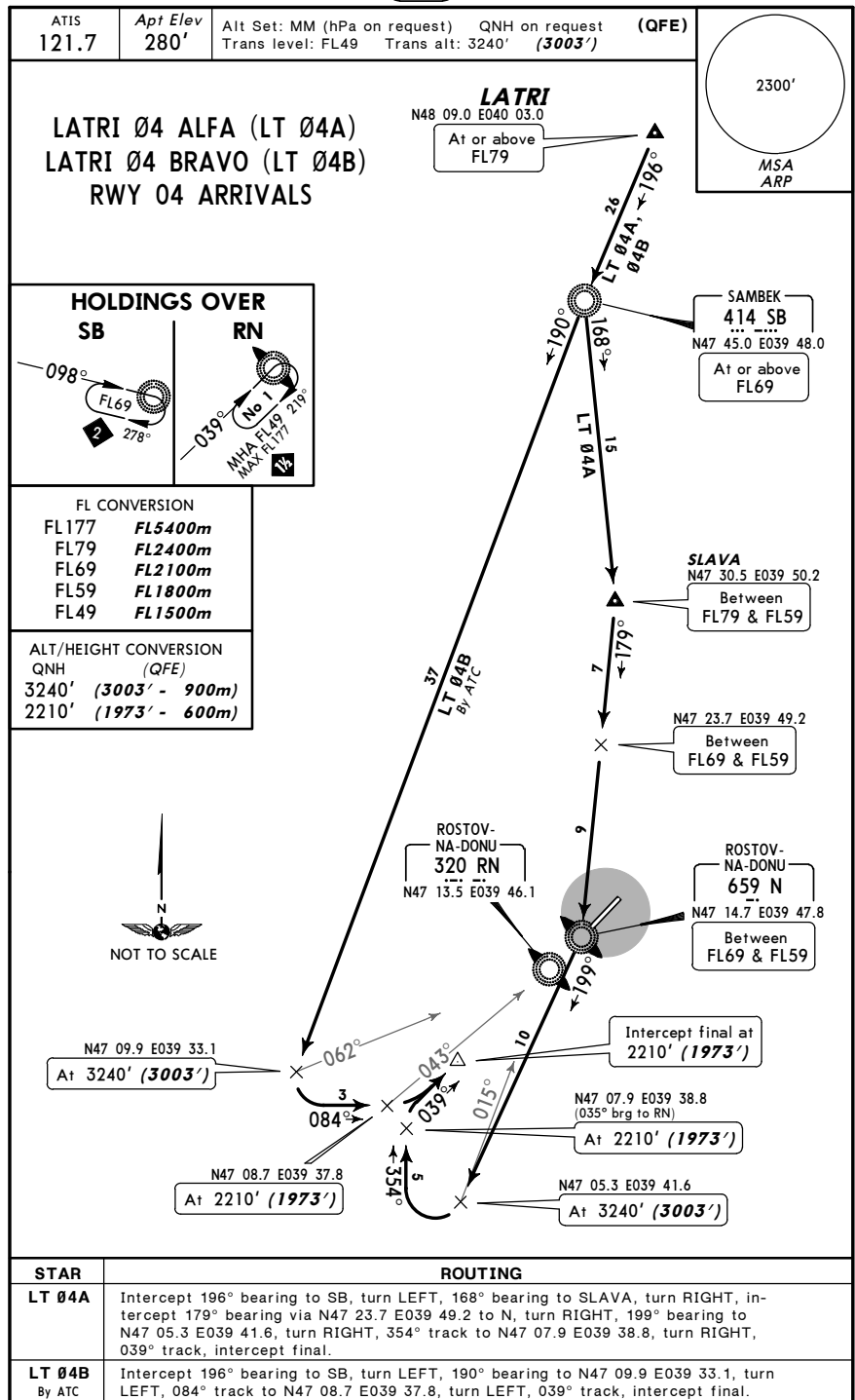
URRR/ROV
ROSTOV-NA-DONU

JEPPesen **ROSTOV-NA-DONU, RUSSIA**

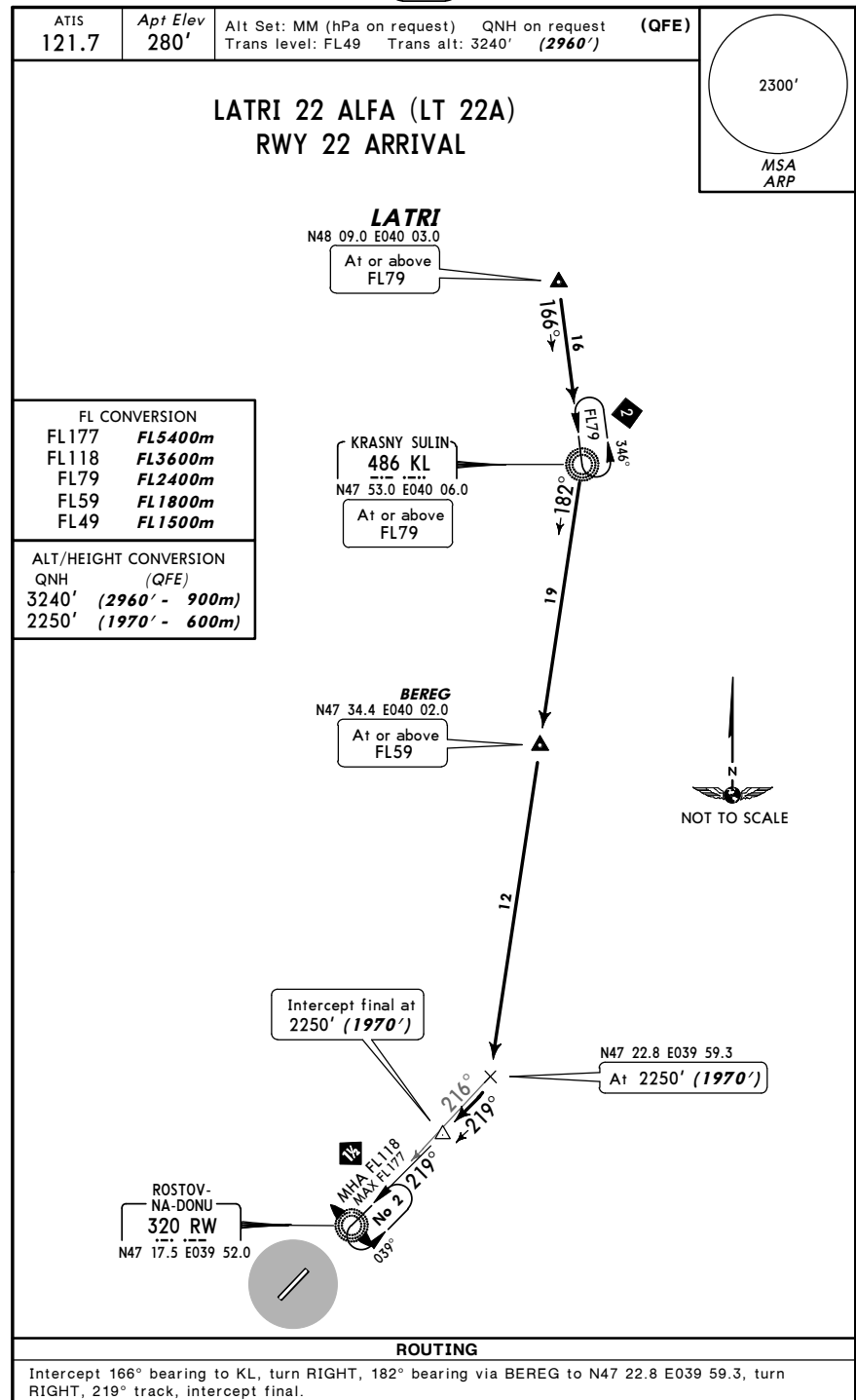
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10 NOV 06 (10-2F) Eff 23 Nov STAR



URRR/ROV
ROSTOV-NA-DONU
10 NOV 06 (10-2G) Eff 23 Nov STAR



URRR/ROV ROSTOV-NA-DONU 10 NOV 06 10-2J Eff 23 Nov STAR

[illegible]

STAR

STAR

| | |
|--|----------------|
| | ROUTING |
|--|----------------|

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URRR/ROV ROSTOV-NA-DONU 6 NOV 09 10-2N Eff 19 Nov STAR

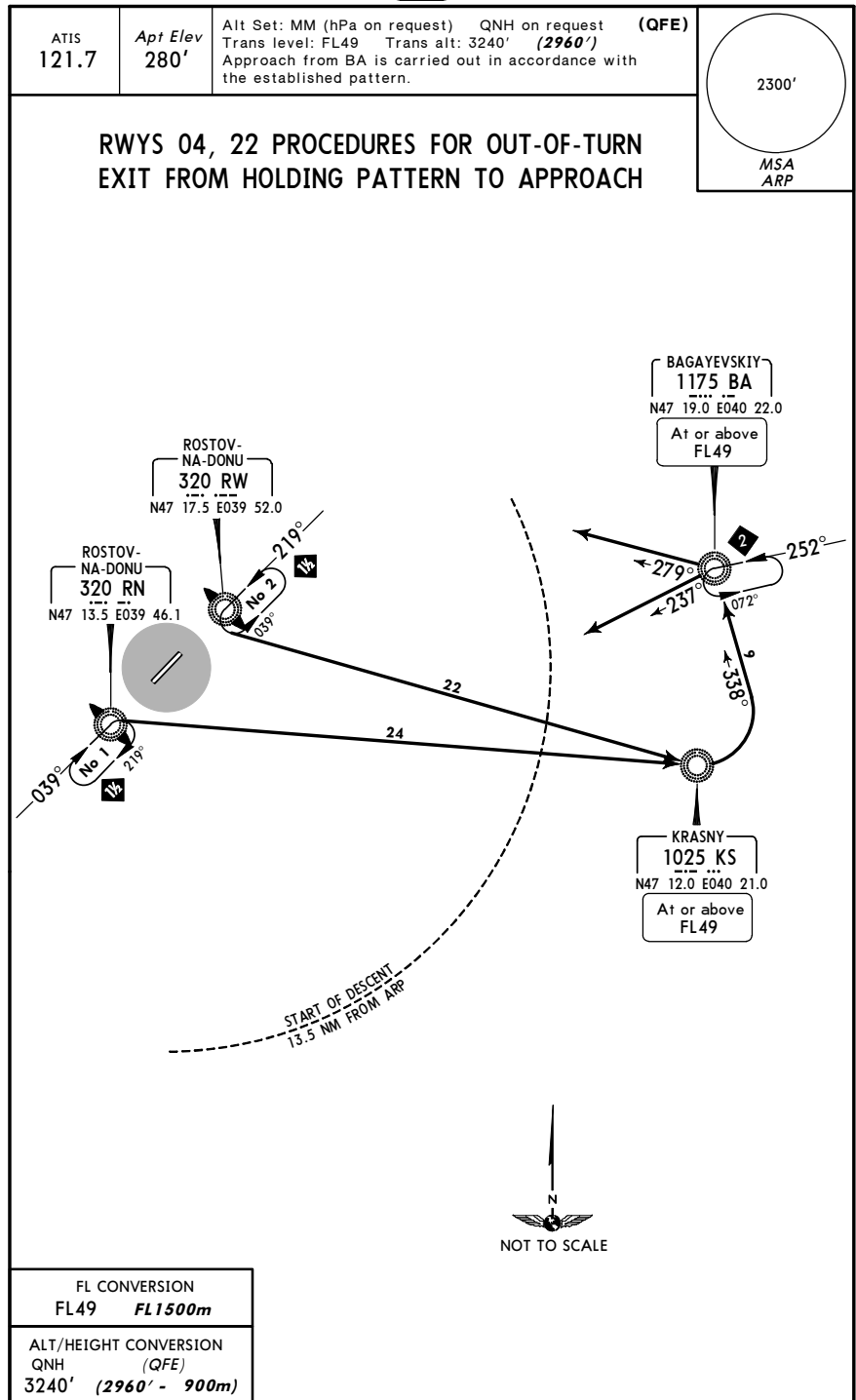
| | | | |
|----------------------|-------------------------|--|--------------|
| ATIS 121.7 | Apt Elev 280' | Alt Set: MM (hPa on request) QNH on request Trans level: FL49 Trans alt: 3240' (2960') | (QFE) |
|----------------------|-------------------------|--|--------------|

YEGORLYK 22 ALFA (ER 22A)

RWY 22 ARRIVAL

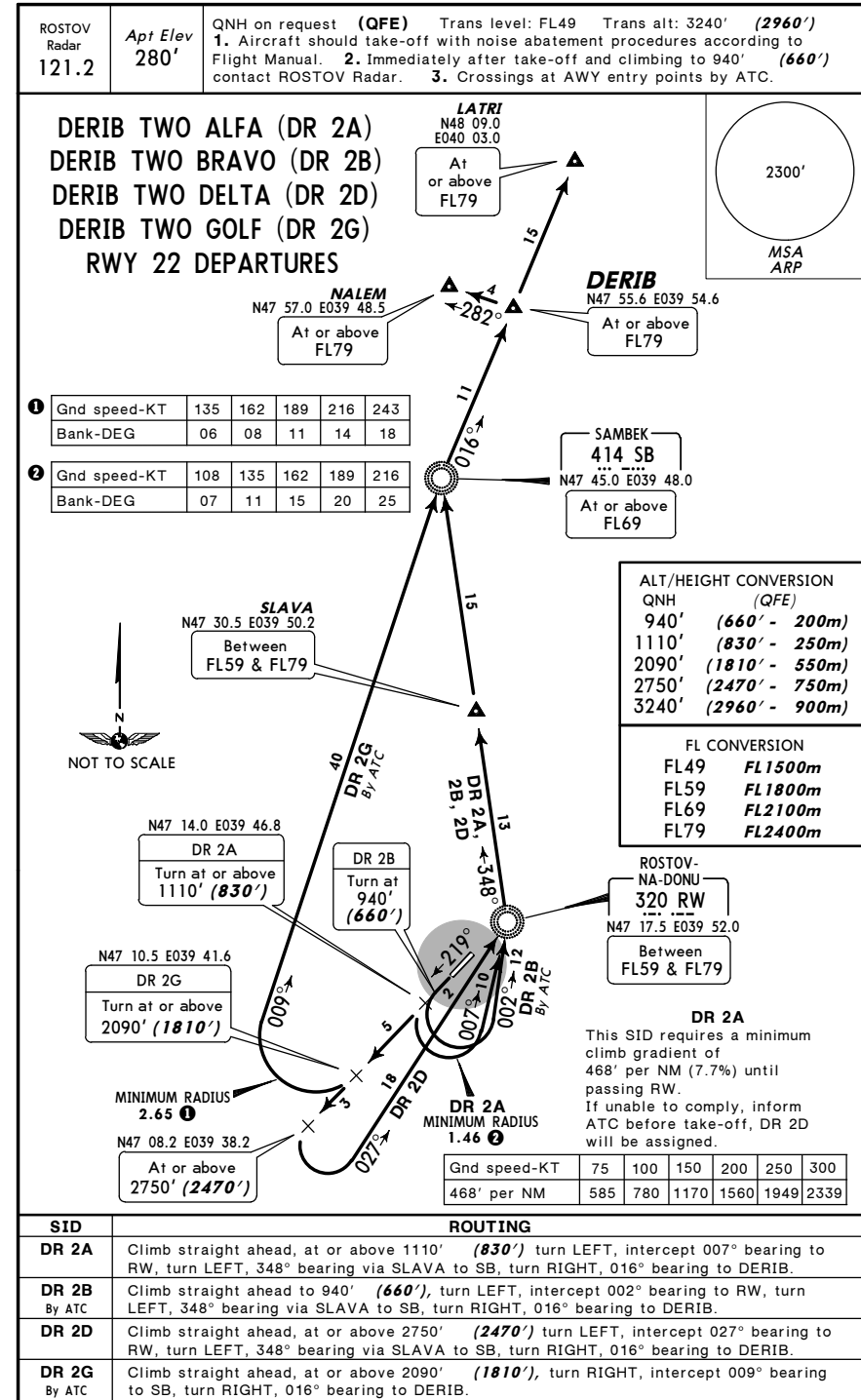
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8 DEC 06 10-2P Eff 21 Dec STAR



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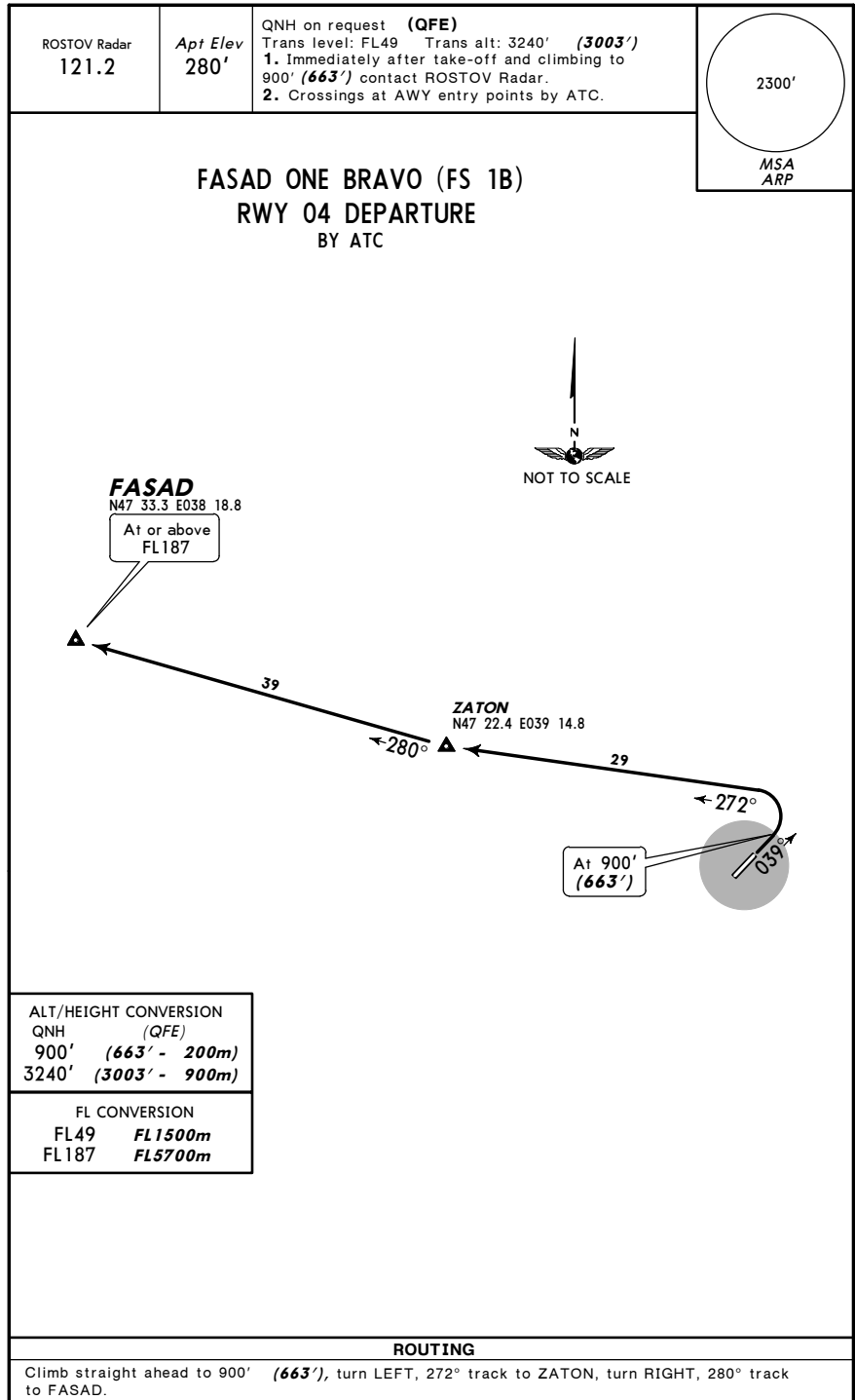
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10 NOV 06 10-3 Eff 23 Nov SID



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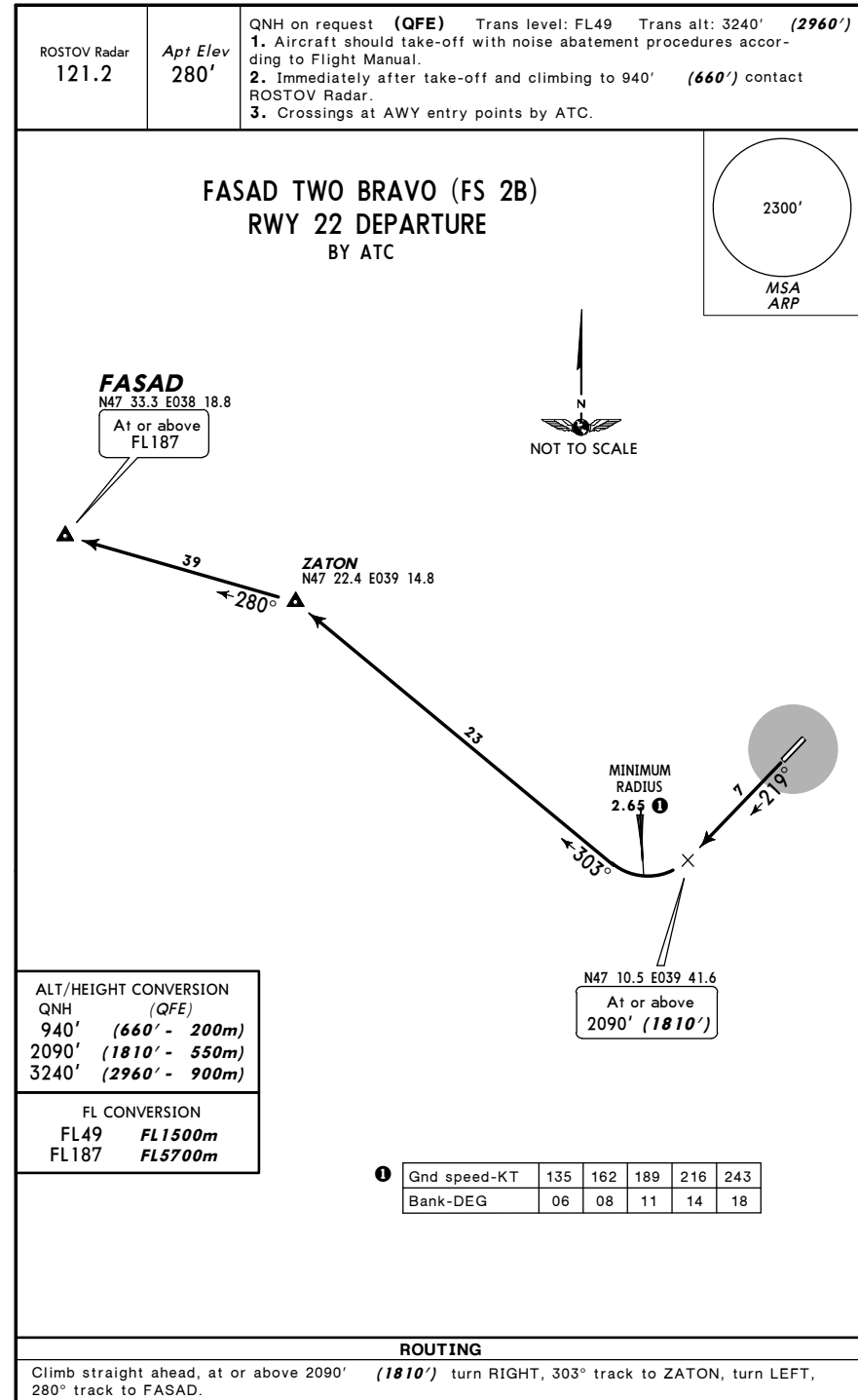
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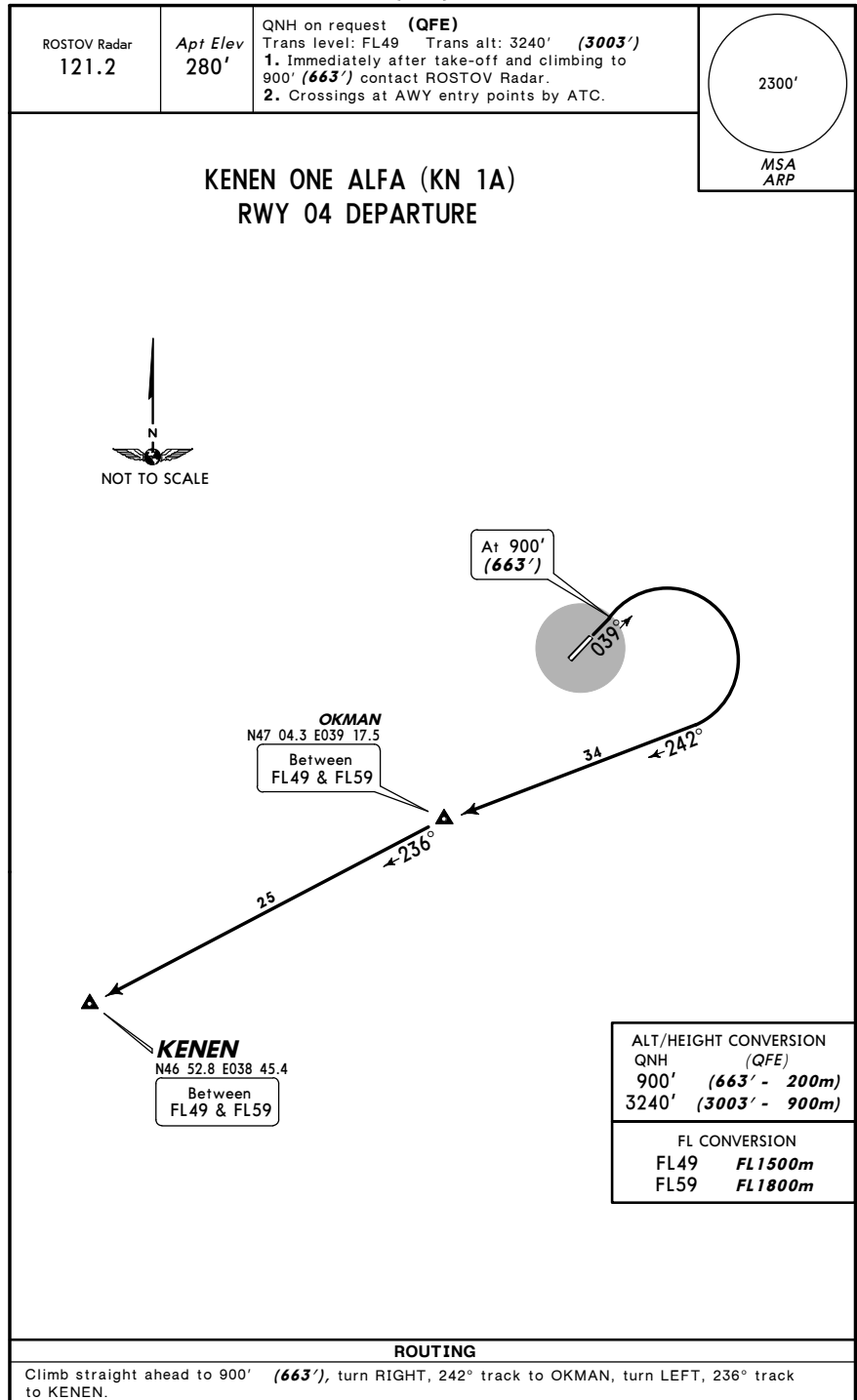
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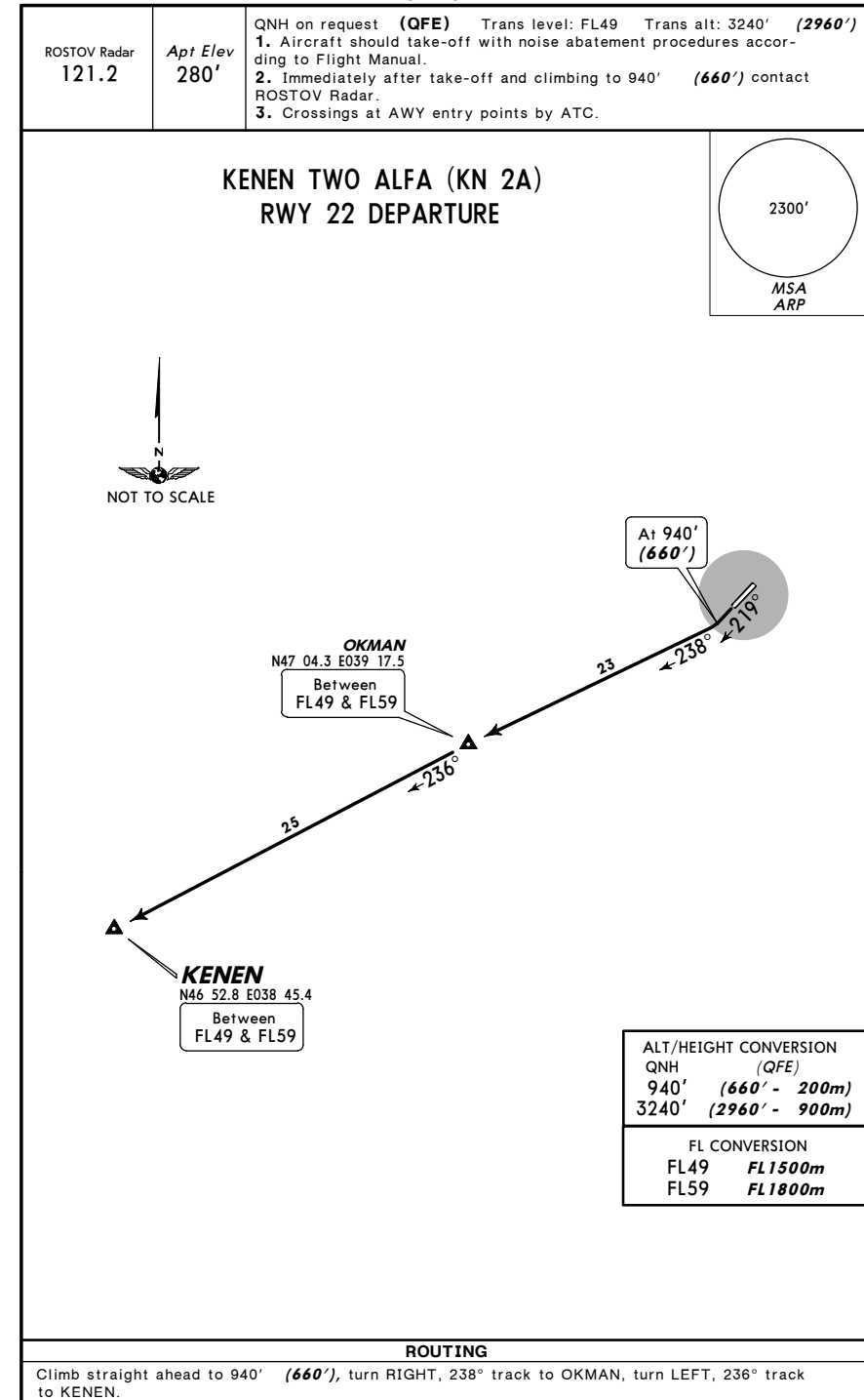
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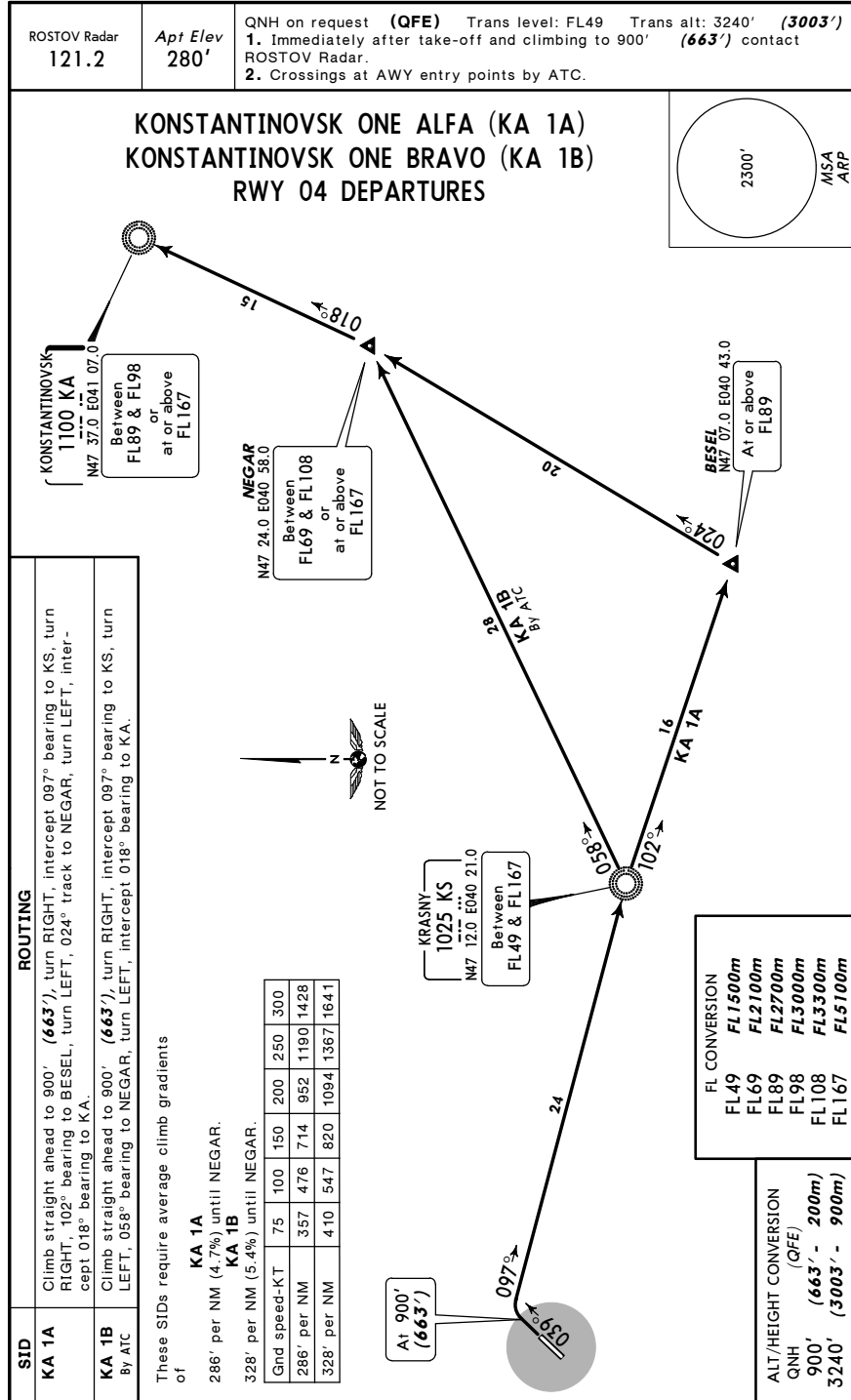
URRR/ROV
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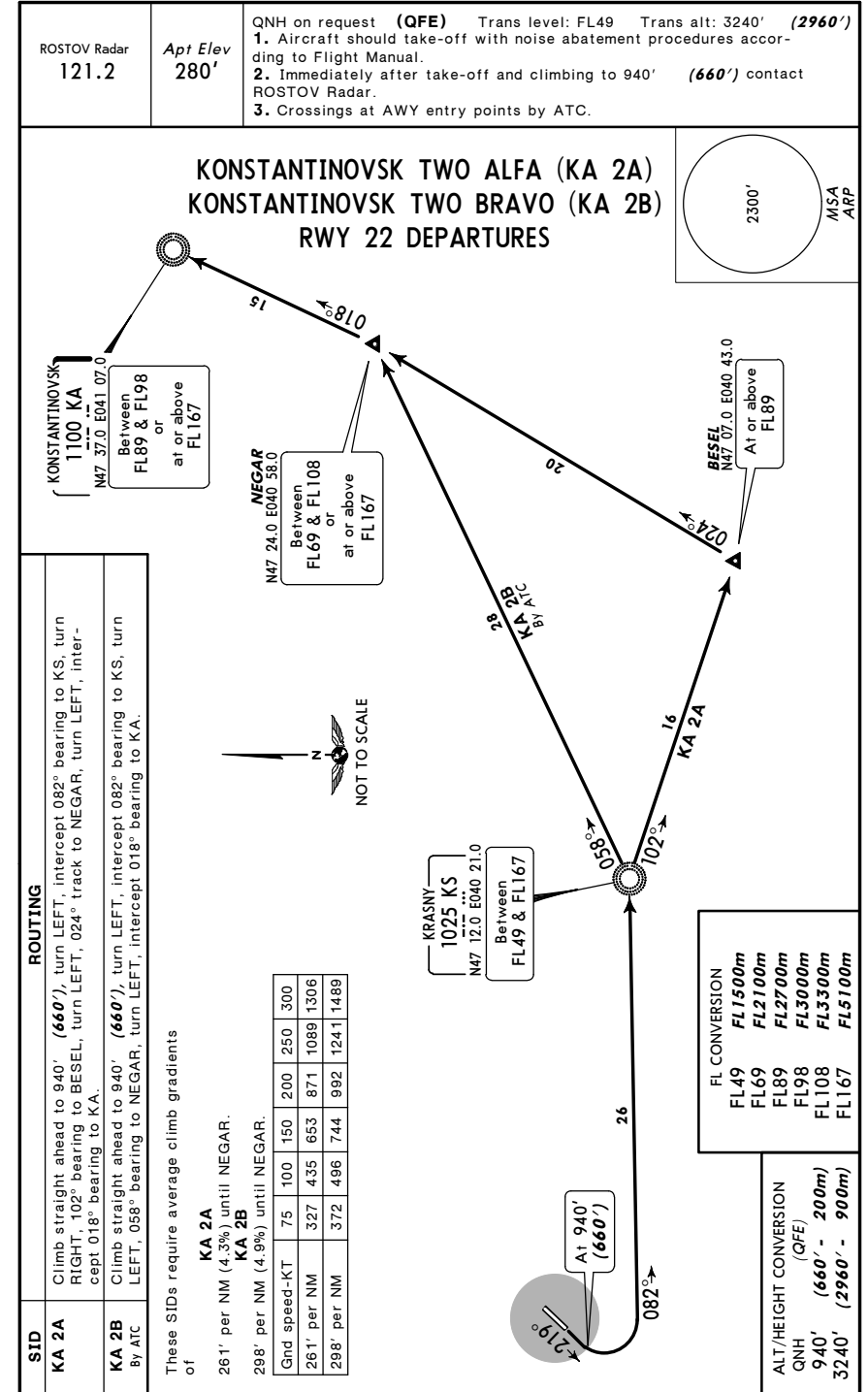
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ROSTOV-NA-DONU 10 NOV 06 **(10-3D)** **Eff 23 Nov** **SID** **JEPPESEN ROSTOV-NA-DONU, RUSSIA**



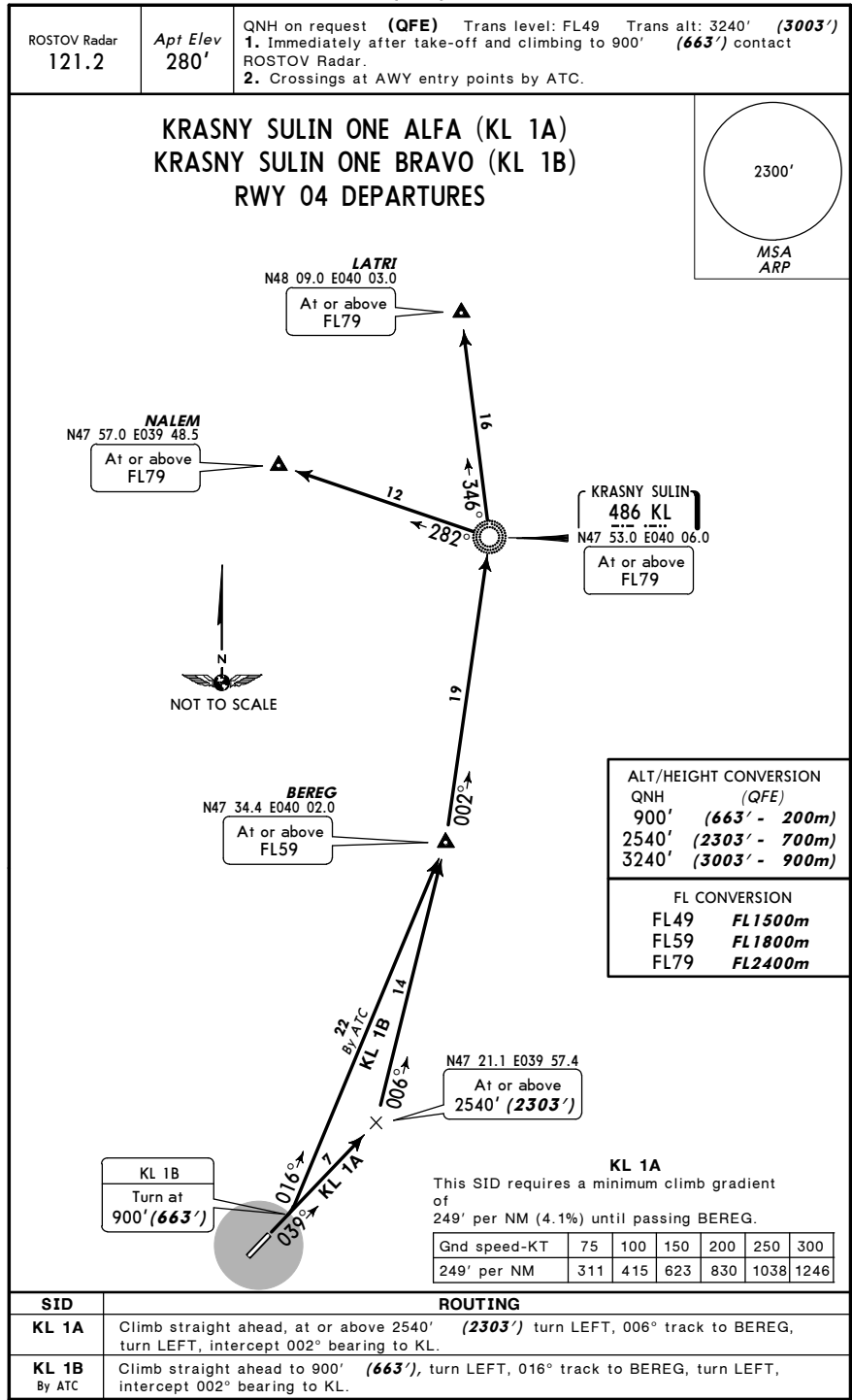
URRR/ROV
ROSTOV-NA-DONU
10 NOV 06 10-3E Eff 23 Nov SID



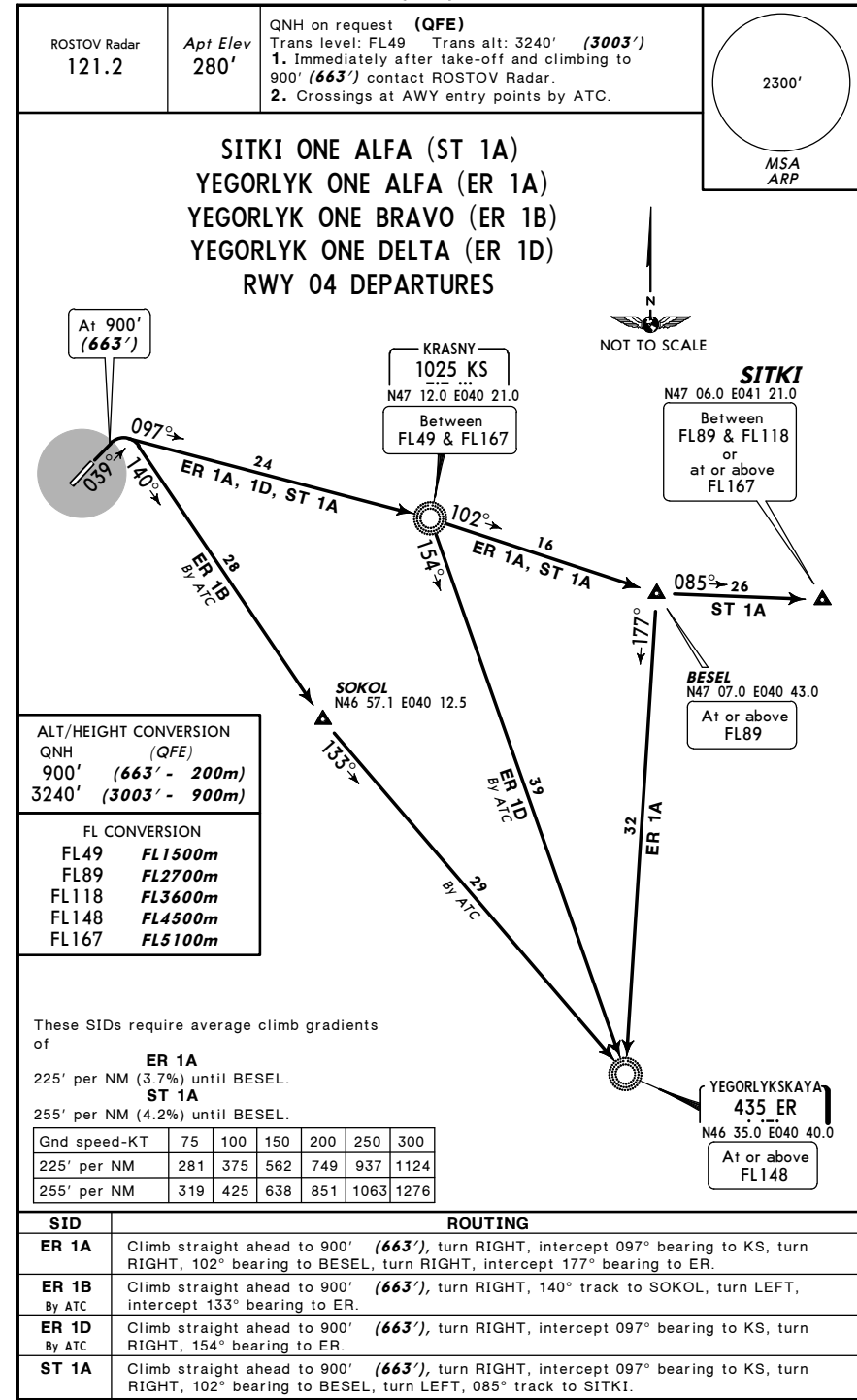
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ROSTOV-NA-DONU
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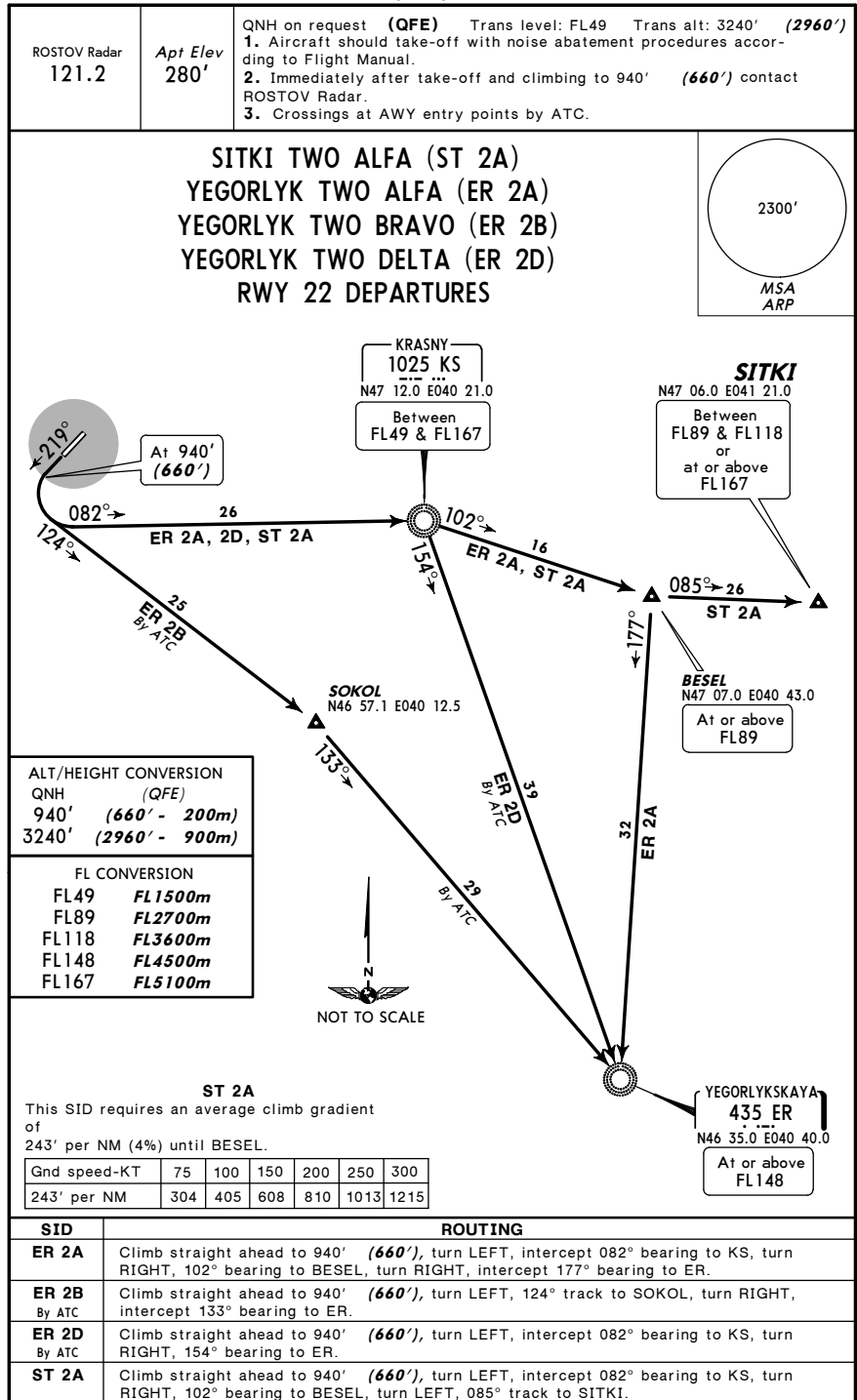
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ROSTOV-NA-DONU
10 NOV 06 (10-3G) Eff 23 Nov SID



URRR/ROV
ROSTOV-NA-DONU
10 NOV 06 (10-3H) Eff 23 Nov SID



URRR/ROV
ROSTOV-NA-DONU
ROSTOV-NA-DONU 10 NOV 06 (10-3J) Eff 23 Nov SID



URRR/ROV
ROSTOV-NA-DONU
ROSTOV-NA-DONU 18 JUN 04 (10-4) NOISE

NOISE ABATEMENT

ARRIVALS

APPROACH PHASE

Noise abatement procedures shall be executed by all aircraft.

If special meteorological conditions are present in arrival and approach sectors, ATS unit may at its own discretion or by a pilot in command's request deviate from the provisions given below, if it is necessary for safety reasons.

Restrictions

During instrument as well as visual approach flying below the ILS glide path angle is not allowed.

Between 2300-0700LT when appropriate meteorological and air conditions are available, landing shall be carried out on runway 22.

Landing with a tail wind component is allowed when tail wind component is according to norms established in Flight Manual for specified aircraft type.

DEPARTURES

TAKE-OFF AND CLIMBING PHASE

Noise abatement procedures shall be executed by all aircraft during take-off on 219° heading.

Noise abatement procedures shall not be executed at the expense of reduction of flight safety and in case of engine failure during take-off, wind shear, moderate turbulence or icing.

Restrictions

Take-off with a tail wind component is allowed when tail wind component is according to norms established in Flight Manual for specified aircraft type.

During take-off rwy 04 on 039° heading and exit from TMA via BEREG climbing shall be carried out with a minimum climb gradient of 346' per NM (5.7%) to N47 26.6 E040 00.3 (034° 13.6 NM from ARP), further climb to BEREG shall be carried out with a minimum climb gradient of 231' per NM (3.8%). If unable to comply advise ATC. Alternative procedure to BEREG: along right-hand loop with a minimum radius of 2.75 NM. The initial turn shall be executed at 2210' (1973').

During take-off rwy 22 on 219° heading and exit from TMA by executing a LEFT turn, climbing straight ahead to 3240' (2960') shall be carried out with a minimum climb gradient of 310' per NM (5.1%) but not later than 9.5 NM from THR runway 04.

During take-off rwy 22 on 219° heading and proceeding with RIGHT turn to SLAVA the initial turn shall be carried out at or above 2250' (1970') and not later than 6.4 NM from THR runway 04 with a minimum turn radius of 2.65 NM.

Special procedures on take-off rwy 22 heading 219°

Take-off and climbing to 1760' (1480')

Take-off power

Take-off flaps

V₂ + 11 to 22 KT

At or above 940' (660') turn with 25° bank

Reduce engine power to a minimum while maintaining positive rate of climb

V₂ + 11 to 22 KT

Accelerate to IAS of wing devices retraction

Retract wing devices

Further climb as per Flight Manual

Between 2300-0700LT when appropriate meteorological and air conditions are available, take-off shall be carried out on runway 04 and landing on runway 22.

URRR/ROV

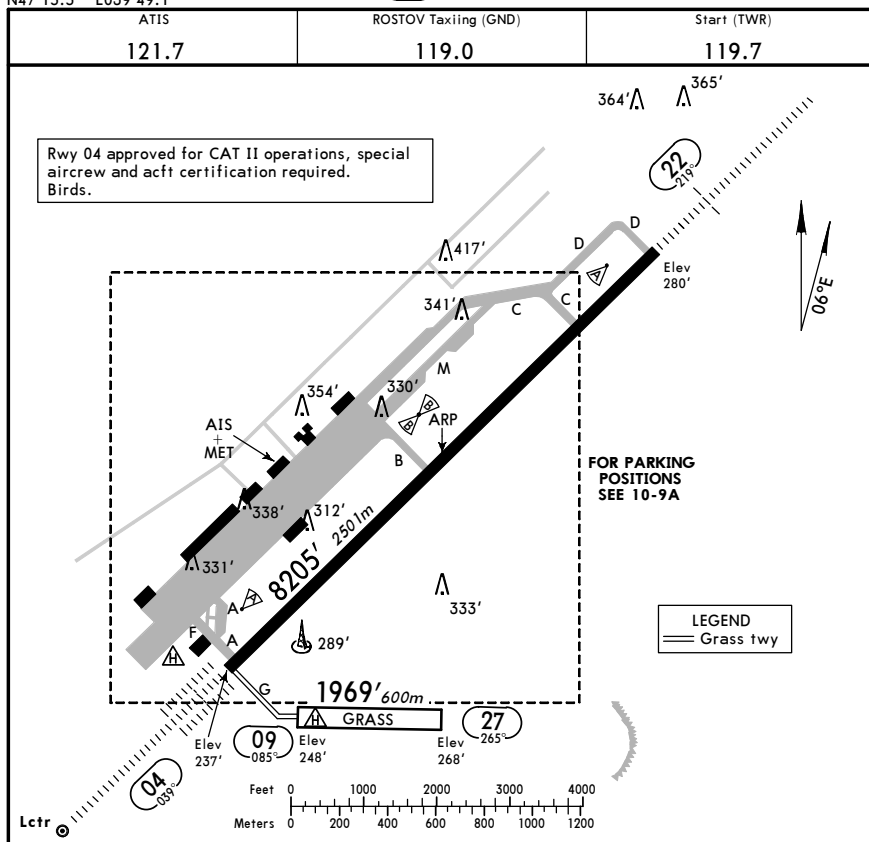
Apt Elev **280'**
N47 15.5 E039 49.1

JEPPesen

6 NOV 09 (10-9) Eff 19 Nov

ROSTOV-NA-DONU, RUSSIA

ROSTOV-NA-DONU



ADDITIONAL RUNWAY INFORMATION

| RWY | USABLE LENGTHS | | | | |
|-----|----------------|----------|----------------|-------|--|
| | LANDING BEYOND | | TAKE-OFF | WIDTH | |
| | HIRL (60m) | CL (15m) | | | |
| 04 | HIRL (60m) | CL (15m) | HIALS-II TDZ ① | RVR | |
| 22 | HIRL (60m) | CL (15m) | HIALS ① | RVR | |
| 09 | | | | | |
| 27 | | | | | |

① PAPI-L (angle 2.67°)

LOW VISIBILITY PROCEDURES

Procedures are applied when RVR is less than 400m.
After landing, pilots must report vacaton of the runway and ILS critical area.

TAKE-OFF

AIR CARRIER (JAA)
Main rwy 04/22

LVP must be in force

| | RL & CL | RCLM (DAY only) or RL | RCLM (DAY only) or RL |
|---|-------------|--------------------------|--------------------------|
| A | | | |
| B | 200m (150m) | 250m | 400m |
| C | | | |
| D | 250m (200m) | 300m | |

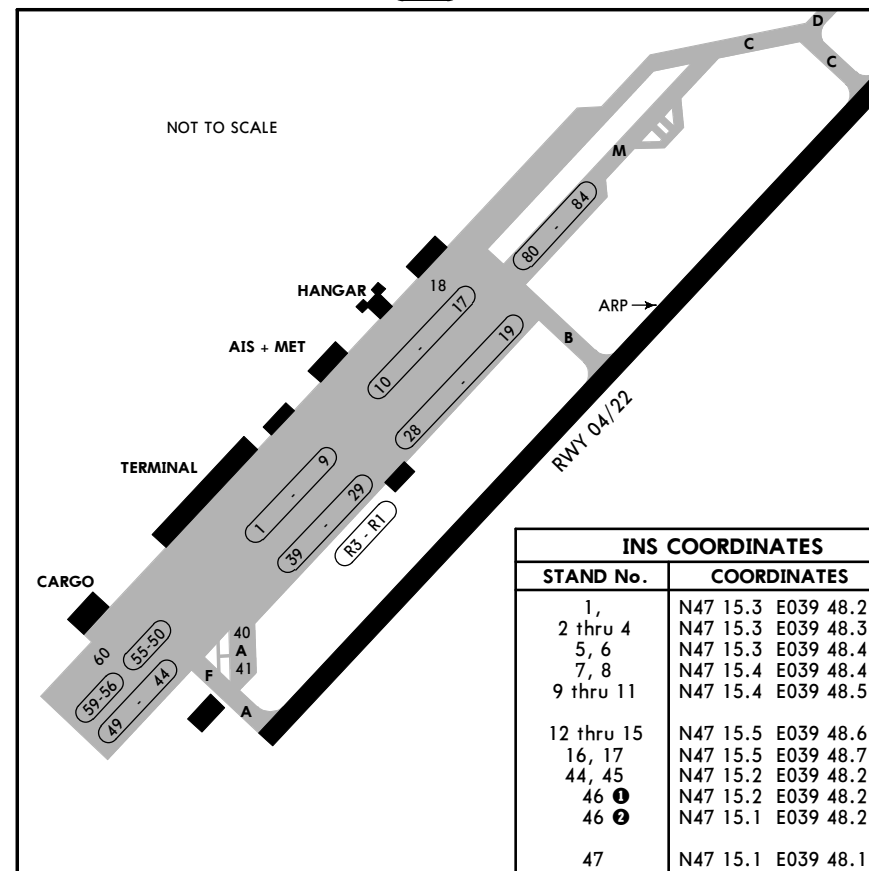
URRR/ROV

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6 NOV 09 (10-9A) Eff 19 Nov

ROSTOV-NA-DONU, RUSSIA

ROSTOV-NA-DONU



INS COORDINATES

| STAND No. | COORDINATES |
|------------|--------------------|
| 1, | N47 15.3 E039 48.2 |
| 2 thru 4 | N47 15.3 E039 48.3 |
| 5, 6 | N47 15.3 E039 48.4 |
| 7, 8 | N47 15.4 E039 48.4 |
| 9 thru 11 | N47 15.4 E039 48.5 |
| 12 thru 15 | N47 15.5 E039 48.6 |
| 16, 17 | N47 15.5 E039 48.7 |
| 44, 45 | N47 15.2 E039 48.2 |
| 46 ① | N47 15.2 E039 48.2 |
| 46 ② | N47 15.1 E039 48.2 |
| 47 | N47 15.1 E039 48.1 |

- ① Stand direction NW
- ② Stand direction SE

When leaving stands 1, 2 and 44 thru 47 by towing start-up to be carried out on Twys A, F or on apron in front of stands 29 thru 39.
Stands 16 thru 28 are cul-de-sacs.
Stands 16 thru 18: Enter/exit by towing.
Stands 19 thru 28 and 80 thru 84: Enter by towing.
Stands 1 thru 41, 44 thru 47, 50 thru 59 and 80 thru 84 available for helicopters.
Taxiing via Twys B, C, M and along apron shall be carried out along twy centerline at minimum speed.
Taxiing along Twy B with inboard engines only.
Taxiing of acft with a wingspan more than 125'/38m and diameter of the main rotor more than 85'/26m from stand 3 to Twy B, along Twy M, along Twy C from Twy M to Twy D, between stands 1 and 44, when any of them is occupied, is prohibited.
Taxiing from stand 50 via stand 51 is allowed for acft with a wingspan more than 98'/30m or diameter of the main rotor than 72'/22m.

URRR/ROV



Standard

20 MAR 09

(10-9S)

ROSTOV-NA-DONU, RUSSIA
ROSTOV-NA-DONU

| STRAIGHT-IN RWY | A | B | C | D |
|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 04 CAT 2 ILS | 337'(100') RA1110'R350m | 337'(100') RA1110'R350m | 337'(100') RA1110'R350m | 337'(100') RA1110'R350m |
| ILS | 437'(200') | 437'(200') | 437'(200') | 437'(200') |
| FULL | R550m | R550m | R550m | R550m |
| Limited | R750m | R750m | R750m | R750m |
| ALS out | R1200m | R1200m | R1200m | R1200m |
| LOC | NOT AUTH | NOT AUTH | NOT AUTH | NOT AUTH |
| 2 NDB 02 | 610'(373') R1000m | 610'(373') R1000m | 610'(373') R1200m | 610'(373') R1200m |
| ALS out | R1700m | R1700m | R1700m | R1700m |
| 2 NDB 06 | 650'(413') R1200m | 650'(413') R1200m | 650'(413') R1200m | 650'(413') R1200m |
| ALS out | R1900m | R1900m | R1900m | R1900m |
| RN NDB 06 | 730'(493') R1500m | 730'(493') R1500m | 730'(493') R1500m | 730'(493') R1500m |
| ALS out | C2300m | C2300m | C2300m | C2300m |
| N Lctr 02 | 850'(613') C2100m | 850'(613') C2100m | 850'(613') C2100m | 850'(613') C2100m |
| ALS out | C2800m | C2800m | C2800m | C2800m |
| N Lctr 06 | 1400'(1163') C4600m | 1400'(1163') C4600m | 1400'(1163') C4600m | 1400'(1163') C4600m |
| ALS out | C5000m | C5000m | C5000m | C5000m |
| 22 ILS | 480'(200') | 480'(200') | 480'(200') | 480'(200') |
| FULL | R550m | R550m | R550m | R550m |
| Limited | R750m | R750m | R750m | R750m |
| ALS out | R1200m | R1200m | R1200m | R1200m |
| LOC | NOT AUTH | NOT AUTH | NOT AUTH | NOT AUTH |
| 2 NDB 01 | 740'(460') R1400m | 740'(460') R1400m | 740'(460') R1400m | 740'(460') R1400m |
| ALS out | C2100m | C2100m | C2100m | C2100m |
| RW NDB 06 | 790'(510') R1600m | 790'(510') R1600m | 790'(510') R1600m | 790'(510') R1600m |
| ALS out | C2400m | C2400m | C2400m | C2400m |
| W Lctr 02 | 790'(510') R1600m | 790'(510') R1600m | 790'(510') R1600m | 790'(510') R1600m |
| ALS out | C2400m | C2400m | C2400m | C2400m |
| W Lctr 06 | 1070'(790') C2900m | 1070'(790') C2900m | 1070'(790') C2900m | 1070'(790') C2900m |
| ALS out | C3600m | C3600m | C3600m | C3600m |

- ① Continuous Descent Final Approach
② with FAF.
③ w/o FAF.

TAKE-OFF RWY 04, 22

| | LVP must be in Force | | | | RCLM (DAY only) or RL | NIL (DAY only) |
|---|---|---------------------------|---------|--------------------------|--------------------------|-------------------|
| | Approved Operators HIRL, CL & mult. RVR req | RL, CL & mult. RVR req | RL & CL | RCLM (DAY only) or RL | | |
| A | | | | | | |
| B | 125m | 150m | 200m | 250m | 400m | 500m |
| C | | | | | | |
| D | 150m | 200m | 250m | 300m | | |

CHANGES: New page.

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URRR/ROV



JAA MINIMUMS

22 JUN 07

Eff 5 Jul

(10-9X)

ROSTOV-NA-DONU, RUSSIA
ROSTOV-NA-DONU

| STRAIGHT-IN RWY | A | B | C | D |
|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 04 CAT 2 ILS | 337'(100') RA1110'R350m | 337'(100') RA1110'R350m | 337'(100') RA1110'R350m | 337'(100') RA1110'R350m |
| ILS | 437'(200') | 437'(200') | 437'(200') | 437'(200') |
| ALS out | R550m R1000m | R550m R1000m | R550m R1000m | R550m R1000m |
| LOC | NOT AUTHORIZED | | | |
| 2 NDB with FAF | 610'(373') 650'(413') | 610'(373') 650'(413') | 610'(373') 650'(413') | 610'(373') 650'(413') |
| 2 NDB w/o FAF | R900m R1500m | R1000m R1500m | R1000m R1800m | R1400m R2000m |
| ALS out | R1500m | R1500m | R1800m | R2000m |
| RN NDB w/o FAF | 730'(493') R1000m | 730'(493') R1200m | 730'(493') R1200m | 730'(493') R1600m |
| ALS out | R1500m | R1500m | R2000m | R2000m |
| N Lctr with FAF | 850'(613') R1000m | 850'(613') R1200m | 850'(613') R1200m | 850'(613') R1600m |
| ALS out | R1500m | R1500m | R2000m | R2000m |
| N Lctr w/o FAF | 1400'(1163') R1200m | 1400'(1163') R1400m | 1400'(1163') R1400m | 1400'(1163') R1800m |
| ALS out | R1500m | R1500m | R2000m | R2000m |
| 22 ILS | 480'(200') R550m | 480'(200') R550m | 480'(200') R550m | 480'(200') R550m |
| ALS out | R1000m | R1000m | R1000m | R1000m |
| LOC | NOT AUTHORIZED | | | |
| 2 NDB | 740'(460') R1000m | 740'(460') R1200m | 740'(460') R1200m | 740'(460') R1600m |
| ALS out | R1500m | R1500m | R2000m | R2000m |
| RW NDB w/o FAF | 790'(510') R1000m | 790'(510') R1200m | 790'(510') R1200m | 790'(510') R1600m |
| ALS out | R1500m | R1500m | R2000m | R2000m |
| W Lctr with FAF | 790'(510') R1000m | 790'(510') R1200m | 790'(510') R1200m | 790'(510') R1600m |
| ALS out | R1500m | R1500m | R2000m | R2000m |
| W Lctr w/o FAF | 1070'(790') R1200m | 1070'(790') R1400m | 1070'(790') R1400m | 1070'(790') R1800m |
| ALS out | R1500m | R1500m | R2000m | R2000m |

TAKE-OFF RWY 04, 22

| | LVP must be in Force | | | RCLM (DAY only) or RL | NIL (DAY only) |
|---|---------------------------|---------|--------------------------|--------------------------|-------------------|
| | RL, CL & mult. RVR req | RL & CL | RCLM (DAY only) or RL | | |
| A | | | | | |
| B | 150m | 200m | 250m | 400m | 500m |
| C | | | | | |
| D | 200m | 250m | 300m | | |

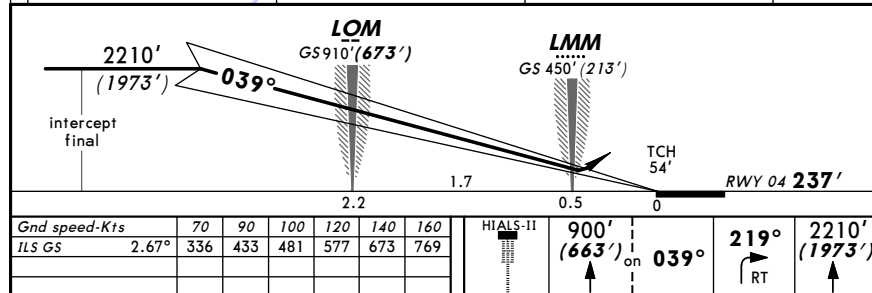
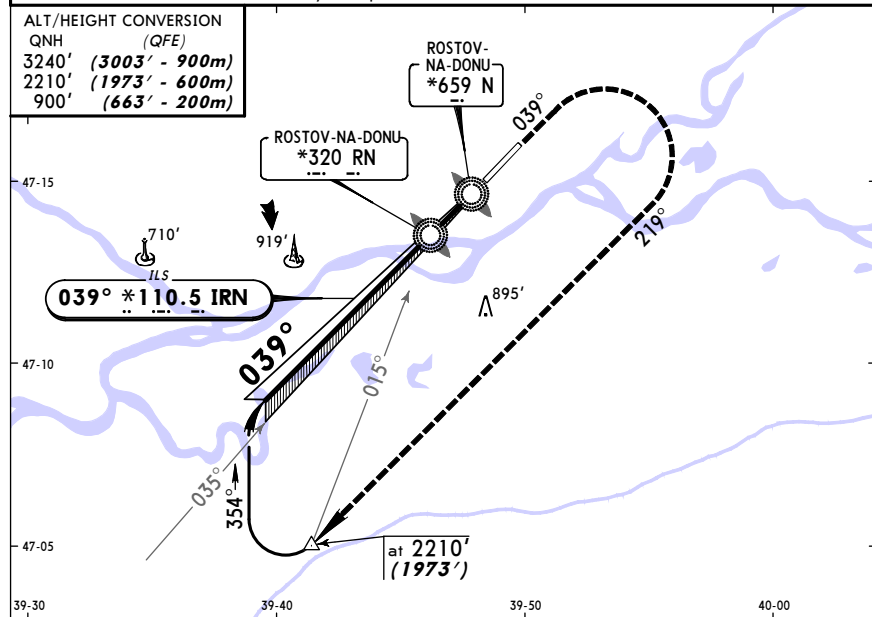
CHANGES: Minimums.

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URRR/ROV
 ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
 22 JUN 07 11-1 Eff 5 Jul ILS Rwy 04

| ATIS | ROSTOV Approach | ROSTOV Radar | ROSTOV Tower/Start (TWR) | Ground |
|---|---------------------------|--------------------------|-----------------------------|---------------------------|
| 121.7 | 128.2 | 121.2 | 119.7 | 119.0 |
| LOC IRN *110.5 | Final Apch Crs 039° | GS LOM 910' (673') | ILS DA(H) 437' (200') | Apt Elev 280' RWY 237' |
| MISSED APCH: Climb on 039° to 900' (663'), then turn RIGHT onto 219° climbing to 2210' (1973'), then according to chart. When reaching 900' (663') contact immediately ROSTOV Radar. | | | | 2300' MSA Airport |
| Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (3003') Increased turbulence and windshear may be expected on final. | | | | |

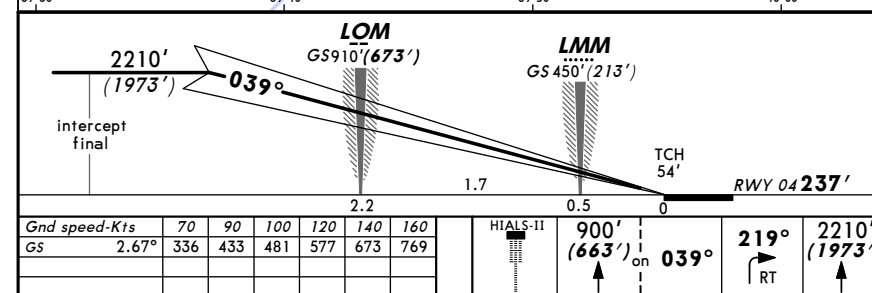
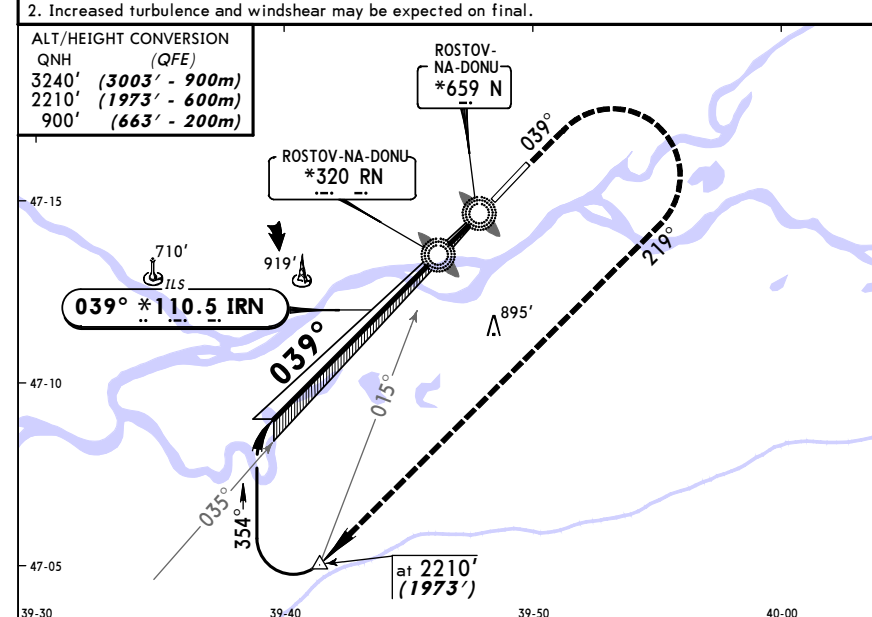


| STRAIGHT-IN LANDING RWY 04 | | | |
|----------------------------|----------------------|----------------------|----------------|
| ILS DA(H) 437' (200') | | LOC (GS out) | |
| FULL | TDZ or CL out | ALS out | |
| A | | | |
| B | | | |
| C | RVR 550m VIS 800m | RVR 720m VIS 800m | 1200m |
| D | | | NOT AUTHORIZED |

URRR/ROV
 ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
 22 JUN 07 11-1A Eff 5 Jul CAT II ILS Rwy 04

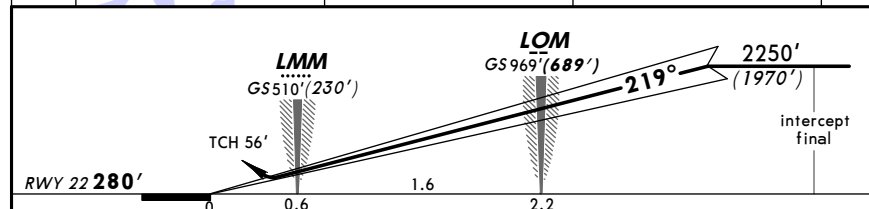
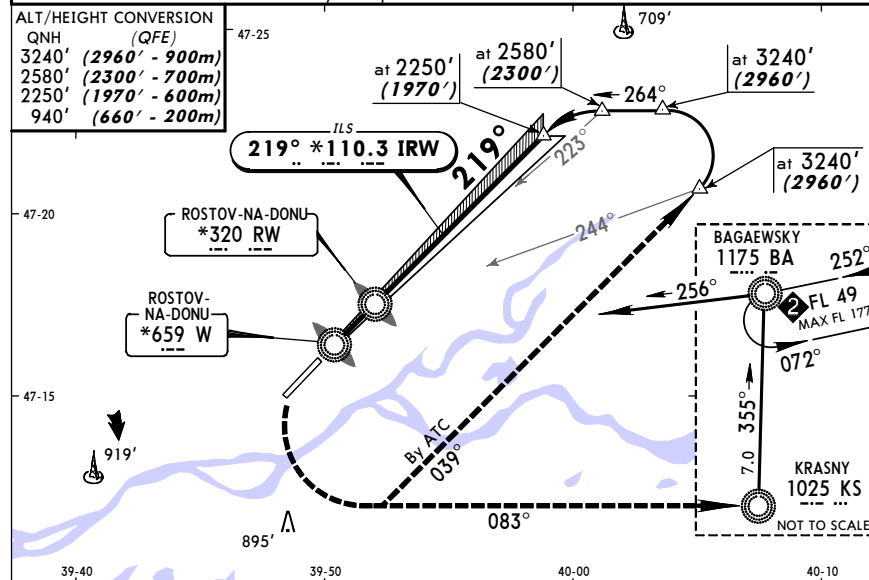
| ATIS | ROSTOV Approach | ROSTOV Radar | ROSTOV Tower/Start (TWR) | Ground |
|---|---------------------------|--------------------------|---|---------------------------|
| 121.7 | 128.2 | 121.2 | 119.7 | 119.0 |
| LOC IRN *110.5 | Final Apch Crs 039° | GS LOM 910' (673') | CAT II ILS RA 110' DA(H) 337' (100') | Apt Elev 280' RWY 237' |
| MISSED APCH: Climb on 039° to 900' (663'), then turn RIGHT onto 219° climbing to 2210' (1973'), then according to chart. When reaching 900' (663') contact immediately ROSTOV Radar. | | | | 2300' MSA Airport |
| Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (3003') 1. Special Aircrew & Acft Certification Required. 2. Increased turbulence and windshear may be expected on final. | | | | |



| STRAIGHT-IN LANDING RWY 04 CAT II ILS | | | |
|--|--|--|--|
| ABCD RA 110' DA(H) 337' (100') | | | |
| RVR 350m | | | |

URRR/ROV
ROSTOV-NA-DONU
JEPPesen ROSTOV-NA-DONU, RUSSIA
6 NOV 09 11-2 Eff 19 Nov ILS Rwy 22

| ATIS | ROSTOV Approach | ROSTOV Radar | ROSTOV Tower/Start (TWR) | Ground |
|--|---------------------------|--------------------------|-----------------------------|---------------------------|
| 121.7 | 128.2 | 121.2 | 119.7 | 119.0 |
| LOC IRW *110.3 | Final Apch Crs 219° | GS LOM 969' (689') | ILS DA(H) 480' (200') | Apt Elev 280' RWY 280' |
| MISSED APCH: Climb to 940' (660'), then turn LEFT onto 083° to KS NDB climbing to 2250' (1970'), then as directed. By ATC: Climb to 940' (660'), then turn LEFT onto 039° climbing to 3240' (2960'). When reaching 940' (660') contact immediately ROSTOV Radar. | | | | 2300' MSA Airport |
| Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (2960') Increased turbulence and windshear may be expected on final. | | | | |



| Gnd speed-Kts | 70 | 90 | 100 | 120 | 140 | 160 | HIALS | 940' (660') | 083° | 2250' (1970') | KS |
|---------------|-------|-----|-----|-----|-----|-----|-------|-------------|------|---------------|------|
| ILS GS | 2.67° | 336 | 433 | 481 | 577 | 673 | 769 | | | | 1025 |

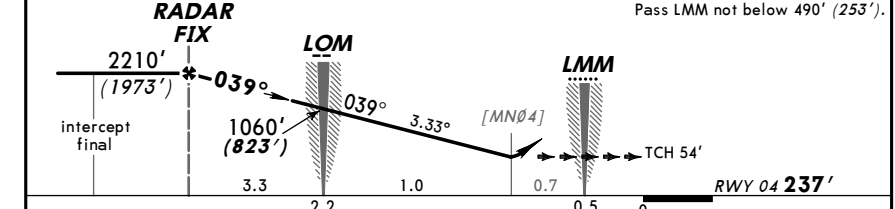
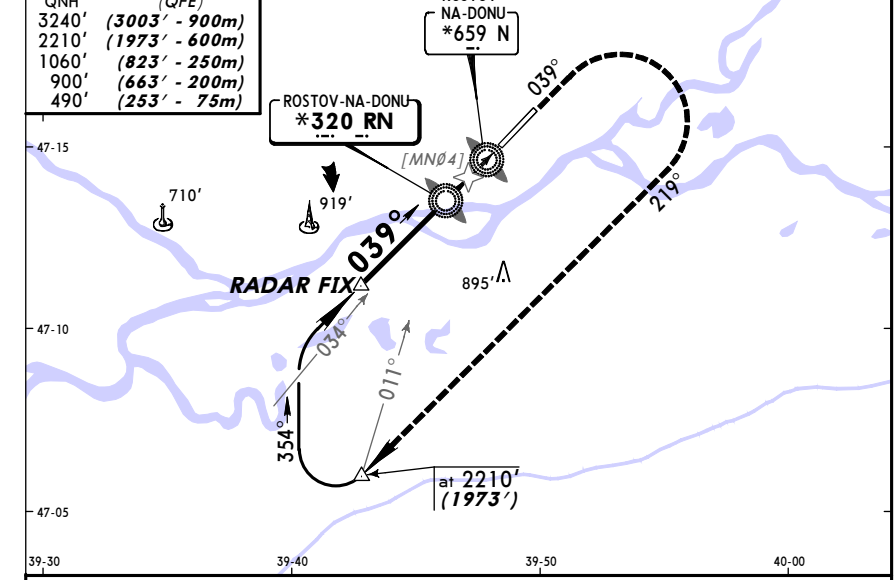
| STRAIGHT-IN LANDING RWY 22 | | LOC (GS out) | |
|----------------------------|----------------------|----------------|----------------|
| ILS DA(H) 480' (200') | | FULL | |
| ALS out | | NOT AUTHORIZED | |
| A | RVR 720m VIS 800m | 1200m | NOT AUTHORIZED |
| B | | | |
| C | | | |
| D | | | |

CHANGES: Bearings.

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URRR/ROV
ROSTOV-NA-DONU
JEPPesen ROSTOV-NA-DONU, RUSSIA
6 NOV 09 16-1 Eff 19 Nov 2 NDB or NDB Rwy 04

| ATIS | ROSTOV Approach | ROSTOV Radar | ROSTOV Tower/Start (TWR) | Ground |
|---|---------------------------|------------------------------------|---|----------------------|
| 121.7 | 128.2 | 121.2 | 119.7 | 119.0 |
| NDB RN *320 | Final Apch Crs 039° | Minimum Alt LOM 1060' (823') | MDA(H) Refer to Minimums Apt Elev 280' RWY 237' | 2300' MSA Airport |
| MISSED APCH: Climb on 039° to 900' (663'), then turn RIGHT onto 219° climbing to 2210' (1973'), then according to chart. When reaching 900' (663') contact immediately ROSTOV Radar. | | | | |
| Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (3003') Increased turbulence and windshear may be expected on final. | | | | |



| Gnd speed-Kts | 70 | 90 | 100 | 120 | 140 | 160 | HIALS-II | 900' (663') | 039° | 219° | 2210' (1973') |
|---------------|-------|-----|-----|-----|-----|-----|----------|-------------|------|------|---------------|
| Descent angle | 3.33° | 412 | 530 | 589 | 707 | 825 | 943 | | | | |

| STRAIGHT-IN LANDING RWY 04 | | N Lctr | |
|--|------------------------|----------------------------------|-------|
| 2 NDB With FAF MDA(H) 610' (373') | | W/o FAF MDA(H) 650' (413') | |
| ALS out | | ALS out | |
| A | RVR 1500m VIS 1600m | 1200m | 3200m |
| B | | | |
| C | | | |
| D | | | |

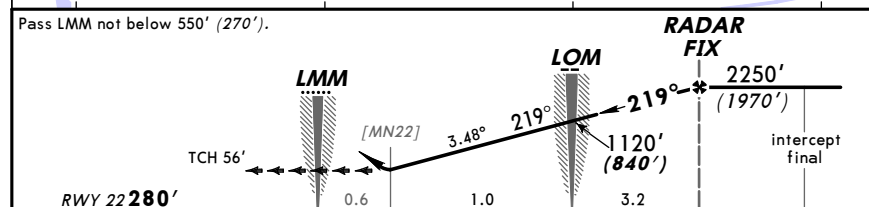
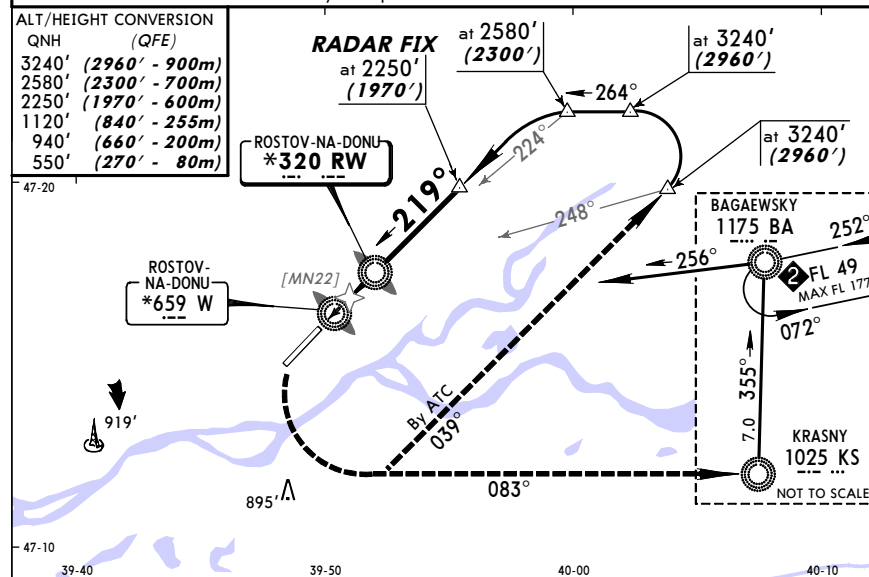
CHANGES: Descent angle.

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URRR/ROV
ROSTOV-NA-DONU
6 NOV 09
Eff 19 Nov
(16-2)
2 NDB or NDB Rwy 22

BRIEFING STRIP

| ATIS | ROSTOV Approach | ROSTOV Radar | ROSTOV Tower/Start (TWR) | Ground |
|--|---------------------------|------------------------------------|---|----------------------|
| 121.7 | 128.2 | 121.2 | 119.7 | 119.0 |
| NDB RW *320 | Final Apch Crs 219° | Minimum Alt LOM 1120' (840') | MDA(H) Refer to Minimums Apt Elev 280' RWY 280' | 2300' MSA Airport |
| MISSED APCH: Climb to 940' (660'), then turn LEFT onto 083° to KS NDB climbing to 2250' (1970'), then as directed. By ATC: Climb to 940' (660'), then turn LEFT onto 039° climbing to 3240' (2960'). When reaching 940' (660') contact immediately ROSTOV Radar. | | | | |
| Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (2960') Increased turbulence and windshear may be expected on final. | | | | |



| Gnd speed-Kts | 70 | 90 | 100 | 120 | 140 | 160 | HIALS | 940' (660') | 083° | 2250' (1970') | KS |
|---------------|-----|-----|-----|-----|-----|-----|-------|-------------|------|---------------|------|
| Descent angle | 431 | 554 | 616 | 739 | 862 | 985 | | ↑ | LT | ↑ | 1025 |

| 2 NDB | | RW NDB W/o FAF | | With FAF | | W Lctr W/o FAF | |
|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|
| MDA(H) 740' (460') | | MDA(H) 790' (510') | | MDA(H) 790' (510') | | MDA(H) 1070' (790') | |
| ALS out | | ALS out | | ALS out | | ALS out | |
| A | | 1500m | 2300m | 1500m | 2300m | 3200m | 3800m |
| B | 1200m | RVR 1800m VIS 2000m | | | | | |
| C | | RVR 1500m VIS 1600m | | RVR 1500m VIS 1600m | | 3200m | 3800m |
| D | RVR 1800m VIS 2000m | 2400m | RVR 1800m VIS 2000m | 2400m | RVR 1800m VIS 2000m | 3600m | 4000m |

PANS OPS